LJ-95-09

SOUTHWEST FISHERIES SCIENCE CENTER

NATIONAL MARINE FISHERIES SERVICE SOUTHWEST FISHERIES SCIENCE CENTER P.O. BOX 271 LA JOLLA, CA 92038

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National Marine Fisheries Service
2570 Dole Street
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CURRENT YEAR OPERATION PLANS FOR FISCAL YEAR 1995

By

Staff of the Southwest Fisheries Science Center

Compiled by D.J. Mackett

ADMINISTRATIVE REPORT LJ-95-09

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

SOUTHWEST FISHERIES SCIENCE CENTER

CURRENT YEAR OPERATING PLANS

FISCAL YEAR 1995

This report presents the FY 1995 Current Year Operating Plans (CYOPs) of the Southwest Fisheries Science Center. Budget summaries for each Task and for each office and laboratory are also presented.

The CYOPs set out the objectives, methodology, resources, activities, events and milestones for each project (Task) to be undertaken by the Center during the fiscal year. In several cases, two or more Tasks may constitute elements of a larger program.

Tasks financed from "base" funds of the Center are all represented; however a selected number of important reimbursable or refundable projects are also included in the last section. This year the Task descriptions include a number of items originally requested as part of the NMFS Management Information System installed to aid the NOAA Review of Science in the Agency.

The CYOPs are plans and, as such, represent the best estimates that the staff could make at the time of their preparation. The user is cautioned to use the data only as estimates; details of budget or program changes put into effect since the plans were prepared can be obtained from the Center Director.

Also, the information concerning detailed allocations among the budget classes (labor, contracts, travel, etc.) usually presented in this annual report has been deleted; only the personnel data have been presented in detail. However, the total budgeted for the other object classes is also presented. One is cautioned not to use the budget data for any need requiring precise figures about expenditures. If such information is required it also can be obtained from the Center Director.

Finally, information in this report should be handled cautiously so as to safeguard the government's competitive procurement process.

David J. Mackett, Planning Officer
Southwest Fisheries Science Center
P.O. Box 271
La Jolla, California 92038

April, 1995

FORM A: INDEX	NMFS CURRENT YEAR OPERATING PLAN FY 1995	FMC: SWC
		PAGE 1 OF 2

CYOP REF#	TITLE	TASK LEADER	FTE	AMOUNT ($K)
040	CENTER DIRECTOR'S OFFICE	NEAL	7.0	614.8
050	LJ GENERAL SUPPORT/ADMINISTRATION	NEAL	6.5	679.9
051	SCIENTIFIC SERVICES	NEAL	6.05	356.5
052	INFORMATION TECHNOLOGY SERVICES	ROLL	6.0	363.6
054	HAWAIIAN FISHERIES DEV (AQUA) (PPA)	NEAL	0.0	452.2
055	HAWAII STOCK MANAGEMENT (PPA)	NEAL	0.0	474.0
056	TUNA/BILLFISH PELAGIC FISH. RES.(PPA)	NEAL	0.0	1895.0
		Subtotal	**25.55**	**4836.0**
060	SENIOR SCIENTIST	PERRIN	1.5	147.0
		Subtotal	**1.5**	**147.0**
301	POPULATION BIOLOGY OF FISHES	HUNTER	7.25	453.2
304	FISHERIES ENVIRONMENT INVESTIGATIONS	LYNN	4.0	241.5
318	ECOLOGY & SYSTEMATICS OF FISHES	MOSER	5.4	301.5
319	COASTAL & PAC. FISH. RES. INVEST.	CHARTER	6.9	398.7
320	SURVEY SYSTEMS ANALYSIS	SMITH	4.15	264.4
330	COMM. & REC. FISH. RES. FOR MGMNT.	JACOBSON	3.5	236.1
		Subtotal	**31.2**	**1895.4**
401	LARGE PELAGICS STOCK INVESTIGATION	BARTOO	4.25	363.1
411	MULTISPECIES DATA COLLECTION & EVAL.	COAN	8.0	399.9
421	OCEANIC FISHERIES INVESTIGATION	SAKAGAWA	2.0	172.4
431	PELAGIC ECOSYSTEM MODELING	KLEIBER	1.0	79.6
		Subtotal	**15.25**	**1015.0**
500	MARINE MAMMAL ADMINISTRATION	BROWNELL	1.0	156.0
510	DOLPHIN STOCK ASSESSMENT	GERRODETTE	1.21	91.1
520	POPULATION IDENTIFICATION	DIZON	6.46	355.6
530	DOLPHIN ECOLOGY PROGRAM	REILLY	5.0	405.5
540	COASTAL MARINE MAMMALS	BARLOW	3.66	254.5
550	DOLPHIN SAFE RESEARCH	EDWARDS	4.99	483.7
		Subtotal	**22.32**	**1746.4**
601	ANTARCTIC ECOSYSTEM RESEARCH GROUP	HOLT	7.0	1137.1
		Subtotal	**7.0**	**1137.1**
700	HL DTR'S OFFICE, ADMIN & OPERATIONS	LAURS	6.6	953.7
701	DATA MANAGEMENT & TECHNICAL SERVICES	TIEMAN	10.0	512.4
720	STOCK ASSESSMENT	WETHERALL	2.9	285.1
721	FISH ECOLOGY PROGRAM	BOGGS	6.0	429.7
730	ECOSYSTEM & ENV INV: OCEANOGRAPHY	POLOVINA	2.0	189.8
731	FISH BIOLOGY & ECOLOGY INVESTIGATION	DEMARTINI	6.0	321.2
732	ECOSYSTEM & ENVIRON INVEST: HABITAT	SEKI	3.0	148.0
740	FISHERY MANAGEMENT & PERFORMANCE	POOLEY	5.91	298.2
741	WPACFIN	HAMM	2.25	111.2
742	FISHERY DATA MANAGEMENT	HAMM	3.75	209.7
750	HAWAIIAN MONK SEAL	GILMARTIN	5.0	494.3
775	MARINE TURTLE RESEARCH PROGRAM	BALAZS	1.0	218.0
		Subtotal	**54.41**	**4171.3**

FORM A: INDEX	NMFS CURRENT YEAR OPERATING PLAN FY 1995	FMC: SWC
		PAGE 2 OF 2

CYOP REF#	TITLE	TASK LEADER	FTE	AMOUNT ($K)
800	LABORATORY MANAGEMENT & SUPPORT - TIB	MACCALL	5.3	257.8
811	GROUNDFISH ANALYSIS INVESTIGATION	LENARZ	6.2	394.0
812	GROUNDFISH COMMUNITIES INVESTIGATION	HOBSON	5.0	326.2
813	GROUNDFISH PHYSIOLOGICAL ECOLOGY	ELDRIDGE	5.0	296.7
821	FISHERY MANAGEMENT ADVISORY	MACCALL	3.0	452.9
		Subtotal	**24.5**	**1727.6**
901	FISHERIES OCEANOGRAPHY & ECOSYSTEMS	BOEHLERT	9.92	839.2
		Subtotal	**9.92**	**839.2**
		Total OR&F	**191.65**	**17515.0**

FORM A: INDEX	NMFS CURRENT YEAR OPERATING PLAN FY 1995	FMC: SWC
		PAGE 3 OF 3

CYOP REF#	TITLE	TASK LEADER	FTE	AMOUNT ($K)
	SELECTED REIMBURSABLE AND REFUNDABLE PROJECTS			
100	WESTPACFIN	HAMM	1.08	59.3
102	MMPA MOLEC. ANALYSIS ...GENE FLOW	DIZON	3.0	103.8
105	COASTWATCH - HONOLULU	LAURS	1.0	50.2
106	COASTWATCH - LA JOLLA	LYNN	0.75	20.9
108	HAWAIIAN MONK SEAL	RAGEN	0.0	495.0
109	MORTALITY OF M.M. IN CALIF. GILLNET	BARLOW	1.16	108.0
110	GRAY WHALES	PERRYMAN	0.0	50.0
111	MARINE MAMMAL SURVEYS	BARLOW	0.0	264.4
115	MARINE TURTLE RESEARCH PROGRAM ADD-ON	BALAZS	0.0	310.0
FWS	CENTRAL VALLEY PROJECT	THOMSON	1.41	66.2
NAV	PACIFIC MISSILE T-RANGE-AER SVY	BARLOW	0.66	171.7
	TOTAL REIMBURSABLE & REFUNDABLE		***8.4***	***1699.5***

APPROVAL SIGNATURE:

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

b/Div: DIRECTOR'S OFFICE
OP #: 040 CENTER DIRECTOR
rrent Yr Task #: 9WGN4001 GENERAL SUPPORT - CENTER

Date: 03/21/95
Prior Yr Task #:
Task Leader: NEAL

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
LL TIME PERMANENT & TERM EMPLOYEES:							
. HOSTLER, VIRGINIA R	11	05	39,586	100.0	39,586	02/06/96	/ /
. LA ROCHE, NANCY L	7	10	30,676	100.0	30,676	/ /	/ /
. MACKETT, DAVID J	14	00	76,475	100.0	76,475	/ /	/ /
. NEAL, RICHARD A	15	00	89,949	100.0	89,949	/ /	/ /
. RASMUSSEN, SHERRIE L	13	00	58,908	100.0	58,908	/ /	/ /
. TILLMAN, MICHAEL	4	04	111,463	100.0	111,463	/ /	/ /
. TROIAN, ROSEMARY A	7	09	29,662	100.0	29,662	11/27/96	/ /

TOTAL FTE FTP POSITIONS= 7.000
TOTAL FTP SALARIES= 436,719

. Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	436,719
[redacted] B. Employer Contribution (22%) = (A x .22)	=	96,078
. Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
. Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
. Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

COMMENTS:

Total Labor (sum of A thru F)	=	532,797
Total Other (from page 2)	=	47,000
Total Estimated Task Cost	=	579,797

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 040 **Lab/Div:** Center **Page:** 1

Title: General Support

Leader: Richard Neal

Budget:

Personnel: $532.8K Other Objects: $ 82.0K Total: $ 614.8 K

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code_____ Code_____ Code_____ Code_____

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

3. **Legislation Supported by CYOP**

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

4. **"Our Living Oceans" Units Associated with CYOP**

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

5. **Fishery Management Plans Associated with CYOP**

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

6. **Facilities Where CYOPs Activities Take Place**

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

The Center support function provides the managerial and administrative support for operating the Southwest Fisheries Science Center. It guides the programming and budgeting of all four laboratories, carries out planning and review functions, tracks budget execution and provides personnel services.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To manage the SWFSC so as to achieve the Center's goals in an efficient manner.

b) To guide and lead the Center in establishing goals and programs in support of NMFS mission and strategic planning.

c) To evaluate the Center's programs and activities, measure progress, and take corrective actions.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Interactive management is applied to produce plans and for evaluation of programs.

3. Products/Services

More efficient cost-effective programs that support NMFS goals and objectives.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

a) The labs and divisions of the Center and Washington Headquarters are the clients.

b) Headquarters and the Center's scientists are the chief suppliers.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

None

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

An organization must have a responsible manager.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

The Tiburon Lab, Honolulu Lab, PFEG and La Jolla Laboratories as well as SWR, NMFS Headquarters are all linked with this CYOP.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
9WGN4001	A	1	Provide guidance on budgets, programs and plans	Oct 1	Sep 30
	E	2	Produce CYOPs for FY 1995 programs		Feb 10
	A	3	Conduct annual reviews of programs	May 15	Aug 15
	A	4	Maintain Financial Reporting System and report on status monthly	Oct 1	Sep 30
	A	5	Monitor needs for information by HQ and supply it on time	Oct 1	Sep 30
	A	6	Carry out personnel functions including EEO for Center	Oct 1	Sep 30
	E	7	Provide annual summary of accomplishments of the SWFSC (SES Report)		Sep '95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

b/Div: ADMINISTRATION
OP #: 050 LA JOLLA ADMINISTRATION
rrent Yr Task #: 9WGN4005 ADMIN SUPPORT - LA JOLLA

Date: 03/21/95
Prior Yr Task #:
Task Leader: ENGSTRAND

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
LL TIME PERMANENT & TERM EMPLOYEES:							
. ENGSTRAND, BARBARA R	11	07	41,915	100.0	42,594	03/22/95	/ /
. HOLDER, PATRICIA G	6	04	23,358	100.0	23,594	06/13/95	/ /
. VACANT, OFFICE AUTO	04	04	18,731	70.0	13,111	/ /	/ /
. WATKINS, BARBARA A	7	09	29,889	100.0	30,545	12/14/94	/ /
. WHYTE, RONALD H	4	10	22,134	100.0	22,134	/ /	/ /

TOTAL FTE FTP POSITIONS= 4.700
TOTAL FTP SALARIES= 131,978

. Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	131,978
B. Employer Contribution (22%) = (A x .22)	=	29,035
. Total Salaries of TEMPORARY EMPLOYEES	=	0
D. Leave Surcharge (18.3%) = (C x .183)	=	0
. Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
. Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	4,000

COMMENTS:

Total Labor (sum of A thru F)	=	165,014
Total Other (from page 2)	=	142,000
Total Estimated Task Cost	=	307,014

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Lab/Div: ADMINISTRATION
CYOP #: 050 LA JOLLA ADMINISTRATION
Current Yr Task #: 9WGN4006 BLDG & GROUNDS - LA JOLLA

Date: 03/21/95
Prior Yr Task #:
Task Leader: MARROW

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
FULL TIME PERMANENT & TERM EMPLOYEES:							
. KROM, STANLEY R	9	04	29,563	60.0	17,737	/ /	/ /
. MARROW, MERLE A	11	05	39,586	100.0	40,750	10/18/94	/ /

TOTAL FTE FTP POSITIONS= 1.600
TOTAL FTP SALARIES= 58,487

. Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	58,487
[redacted] B. Employer Contribution (22%) = (A x .22)	=	12,867
. Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
. Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
. Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	1,000

COMMENTS:

Total Labor (sum of A thru F) = 72,355
Total Other (from page 2) = 288,500
Total Estimated Task Cost = 360,855

NC FORM 4

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

/Div: ADMINISTRATION
P #: 050 LA JOLLA ADMINISTRATION
rent Yr Task #: 8L1C1A01 JUNIOR FELLOWSHIP PROGRAM + OTHER PERSONNEL PROGRAMS

Date: 03/21/95
Prior Yr Task #:
Task Leader: HOSTLER

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
L TIME PERMANENT & TERM EMPLOYEES:							
LAU, BOULDERSON B	5	01	18,340	25.0	4,585	07/10/95	/ /

TOTAL FTE FTP POSITIONS= 0.250
TOTAL FTP SALARIES= 4,585

WORKFORCE DIV. TRAINING 2.5
SUPERV. & EEO TRAINING 2.9
2/20 UNIV. PROGRAM 2.0
6.4

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	4,585
[redacted] B. Employer Contribution (22%) = (A x .22)	=	1,008
Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

COMMENTS:

Total Labor (sum of A thru F) =	5,593
Total Other (from page 2) =	6400
Total Estimated Task Cost =	~~5,593~~
NC FORM 4	11,993

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 050 **Lab/Div:** La Jolla Admin. Support **Page:** 1

Title: Administrative Support

Leader: Barb Engstrand

Budget:

Personnel: $165.5K Other Objects: $142.0K Total: $ 307.5 K

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code SWC1 Code SWC2 Code SWC3 Code SWC4
Code CA DFG Code IATTC Code NESDIS Code NOS

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

3. **Legislation Supported by CYOP**

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

4. **"Our Living Oceans" Units Associated with CYOP**

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

5. **Fishery Management Plans Associated with CYOP**

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC1 Code:_____ Code:_____ Code:_____

Percent: 100% Percent:_____ Percent:_____ Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

Center management and La Jolla Support.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To provide administrative services, to the laboratory staff, required to support management and research on a daily basis.

b) To provide administrative services to tenant agencies at the Southwest Fisheries Science Center.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Necessary administrative services are provided by keeping apprised of governing laws and regulations of OMB, GPO, GAO, Comptroller General Decisions, Federal Property Management Regulations, Federal Acquisition Regulations, Federal Travel Regulations, Federal Pay and Leave Administration and various departmental, agency and regional directives.

3. Products/Services

Timely and accurate processing of all administrative Services.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

All divisions of the SWFSC and tenant groups are provided with administrative services provided by this support group.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

Only 8% of administrative support groups total budget is allocated to contract costs. One major contract for FY95 provides budget and accounting data entry and reconciliation. The remainder of the contract budget provides maintenance and repair of equipment and miscellaneous day labor.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Administration support related to day to day operation of facilities and services at the SWFSC.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

Direct coordination with other task leaders within CYOP and other laboratories administrative services groups. Other linkages through support services provided to CA DFG, IATTC, NESDIS, and NOS.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

/Div: SCIENTIFIC SERVICES
? #: 051 SCIENTIFIC SERVICES
rent Yr Task #: 8L1C1AM3 EDITORIAL SERVICES

Date: 03/21/95
Prior Yr Task #:
Task Leader: SMITH S

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
L TIME PERMANENT & TERM EMPLOYEES:							
BLAIR, CONNIE L	7	02	24,385	5.0	1,219	03/20/95	/ /
PEREZ, ESTHER M	5	02	21,200	100.0	21,200	02/20/95	/ /
SMITH, SUSAN E	12	05	47,442	100.0	47,442	03/19/96	/ /

TOTAL FTE FTP POSITIONS= 2.050
TOTAL FTP SALARIES= 69,861

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	69,861
[redacted] B. Employer Contribution (22%) = (A x .22)	=	15,369
Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

OMMENTS:

Total Labor (sum of A thru F)	=	**85,230**
Total Other (from page 2)	=	**5,000**
Total Estimated Task Cost	=	**90,230**

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

/Div: SCIENTIFIC SERVICES
P #: 051 SCIENTIFIC SERVICES
rent Yr Task #: 8L1C1AM2 LA JOLLA LIBRARY

Date: 03/21/95
Prior Yr Task #:
Task Leader: LOSEY

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
L TIME PERMANENT & TERM EMPLOYEES:							
LOSEY, DEBRA A	11	04	38,421	100.0	38,421	04/16/96	/ /

TOTAL FTE FTP POSITIONS= 1.000
TOTAL FTP SALARIES= 38,421

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	38,421
[redacted] B. Employer Contribution (22%) = (A x .22)	=	8,452
Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

OMMENTS:

Total Labor (sum of A thru F) = 46,873
Total Other (from page 2) = 54,100
Total Estimated Task Cost = 100,973

NC FORM 4

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: SCIENTIFIC SERVICES
#: 051 SCIENTIFIC SERVICES
ent Yr Task #: 8L1C1AM4 ILLUSTRATIVE SERVICES

Date: 03/21/95
Prior Yr Task #:
Task Leader: RAYMOND

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
ALLEN, ROY S	9	08	35,601	100.0	35,601	09/18/96	/ /
ORR, HENRY M	9	08	35,601	100.0	35,601	09/18/96	/ /
RAYMOND, KENNETH S	12	10	54,418	100.0	54,418	/ /	/ /

TOTAL FTE FTP POSITIONS= 3.000
TOTAL FTP SALARIES= 125,620

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	125,620
[redacted] B. Employer Contribution (22%) = (A x .22)	=	27,636
Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MMENTS:

Total Labor (sum of A thru F) = 153,256
Total Other (from page 2) = 12,000
Total Estimated Task Cost = 165,256

NF FORM 4

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC -051 **Lab/Div:** Dir. Office **Page:** 1

Title: Editorial Services ONLY

Leader: Smith, Susan E.

Budget:

Personnel: $ ~~84.3~~ 85.2K Other Objects: $ 5.0 K Total: $ ~~89.3~~ 90.2K

ASSOCIATION ITEMS SECTION

1. Agencies: HQ, SWC1, SWC2, SWC3, SWC4, SWR

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T3F	Code: T3D	Code: T1A	Code: T2A
Outreach	Improved Understanding	Assess Fisheries	Assess Protected spp.
Percent: 25	Percent: 35	Percent: 20	Percent: 20

3. Legislation Supported by CYOP

Code: MA	Code: MMPA	Code: ESA	Code:
Percent: 50	Percent: 45	Percent: 5	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code: 14	Code: 18	Code: 17	Code: 16
Percent: 25	Percent: 25	Percent: 25	Percent: 25

5. Fishery Management Plans Associated with CYOP

Code: N/A	Code:	Code:	Code:
Percent:	Percent:	Percent:	Percent:

6. Facilities Where CYOPs Activities Take Place

Code: SWC1 Code:_____ Code:_____ Code:_____

Percent: 100 Percent:_____ Percent:_____ Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

To educate and gain more positive public support, NMFS needs to communicate its research findings in clearly-presented, non-technical terms to reach the largest possible audience about U.S. fishery resource and protected species problems, NMFS proposed solutions to these problems, and the scientific rationale for arriving at these solutions.This CYOP addresses the need for maintaining effective external communications with constituents and the public concerning the agency's mission, program activities, research results and accomplishments. It also addresses management's need for maintaining effective internal communications and tracking progress of research milestones within the Center.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To provide constituents with accurate, timely, and clearly presented information on research results and activities carried out by NMFS' Southwest Fisheries Science Center, and foster good relations with the public and press;

b) To provide staff support to the Center Director in tracking and reporting on progress of CYOP milestones and in maintaining effective in-house communication among Center laboratories; and

c) To ensure that SWC publications meet established editorial standards.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Public informational materials, including brochures and media release are issued on a regular basis and regular contact is maintained with members of the local news media; educational events are coordinated; Center program milestones are tracked and Director's SES Performance Plan prepared; Center documents are edited and prepared for publication including scientific manuscripts and special briefing documents and reports; Weekly Staff Meeting Minutes, Quarterly Report of Activities, and Director's Information Brief are assembled, edited, and prepared for publication.

3. Products/Services

SWFSC Quarterly Report of Activities, Director's Information Brief, Director's Report to the Annual Tuna Conference, SWFSC Weekly Staff Meeting Minutes, SWFSC descriptive brochures, special briefing documents, regular press releases on Center activities.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Representatives from the media receive press releases and are contacted about Center activities which may be of interest to their readers/viewers; various NMFS constituents, Congressional Staff and others within NOAA and NMFS regularly recieve the Center's Quarterly Report and Annual Report to the Tuna Conference; the general public, school teachers, students, and civic groups benefit from public information activities, and NMFS Headquarters staff are provided selected briefing materials on request. Within the Center, editorial guidance and standards are provided to staff scientists, and all SWC personnel are clients in recieving information on Center research and personnel activities through the Director's Information Brief and Staff Meeting Minutes.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

-UCSD Editorial Training (certificate program) for Editorial Assistant
-Prvt. Editorial contracting necessitated by loss of staff.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Maintaining good public and constitutent relations and providing effective information products has long been stressed within the agency, but most recently, as a result of the Management and Organization Review, "Agency Image and External Communications" was selected as one of nine charter areas in need for agency change/improvement, mandated by the National Performance Review with the expressed support of NOAA and the Department of Commerce.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

This CYOP coordinates public affairs, editorial and program tracking activities with all SWC laboratories (F/SWC1, F/SWC2, F/SWC3, F/SWC4) and divisions, and with the Southwest Regional Office in Long Beach, CA. It also cooperates regularly with NMFS/NOAA headquarters, especially EA5-NOAA Office of External Affairs assigned to NMFS.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1C1AM3	M	1	Edit& prepare SWC Quarterly Reports	10/94	9/95
8L1C1AM3	M	2	Prepare 2-6 issues of Director's Information Brief	10/94	9/95 (on hold)
8L1C1AM3	M	3	Complete Summary Report to Tuna Conference	3/95	4/95
8L1C1AM3	A	4	Track major SWC milestones	1/95	9/95
8L1C1AM3	M	5	Prepare Director's SES Report	3/95	9/95
8L1C1AM3	A	6	Provide editorial support to SWC staff		(partially on hold)

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

8L1C1AM3	A	7	Edit Staff Meeting Minutes	10/94	9/95
8L1C1AM3	A	8	Prepare news items/press releases on major SWC activities or research results	10/94	9/95 (partially on hold)

filename:DI051.41

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC -051 **Lab/Div:** Scientific Serv. **Page:** 1

Title: La Jolla Library

Leader: Losey, Debra

Budget:

Personnel: $ 46.9 K Other Objects: $ ~~54.3~~ 54.1 K Total: $ ~~78.2~~ 101.0 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code_____ Code_____ Code_____ Code_____

2. NOAA Strategic Plan Elements Supported by CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

3. Legislation Supported by CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

4. "Our Living Oceans" Units Associated with CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

5. Fishery Management Plans Associated with CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

6. Facilities Where CYOPs Activities Take Place

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

The SWFSC Library seeks to provide professional scientific and technical information services and document delivery to center staff in support of the mission and programs of SWFSC and NMFS.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To maintain a modern research library specializing in bibliographic materials in fisheries, fish biology, marine mammals, the marine environment and the management of marine resources, and to enable their use by center staff, affiliates, and various publics;

b) To establish and maintain links with federal, state, university, and international information centers in order to secure information on subjects of concern to center staff and other constituents;

c) To archive and provide access to the scientific publications of SWFSC authors;

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Library services and primary functions include: Reference, Referral & Interlibrary Loan; Online & CD-ROM Database Searching; Acquistions, Cataloging, Circulation & Maintenance of the Library Collection. The Library is a participating member in federal, national, and international networks, and has long-standing exchange agreements worldwide. The Library maintains an archive of published material by the SWFSC staff, and maintains computerized indexes to published papers and internal reports.

3. Products/Services

Bibliographic products are produced from Online Computer Databases, from CD-ROM, and from University and Internet Information Networks; "FYI" Newsletter published irregularly to inform staff of library activities and concerns; Bibliographic lists of SWFSC and SWR research, published and unpublished, by subject or author, using in-house databases;

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

SWFSC staff, SWR staff, and IATTC staff are primary clients. General public, fishermen and fishing industry representatives, other federal and international agency staff, SIO and University students and faculty, grade school teachers, visiting scientists and lecturers.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)
[total budget= 78.2]

Readmore Journal Vendor (19.4%) Other Journals (2.5 %)
CD-ROM Subscriptions (2.5%) OCLC (2.5%)
DIALOG Search Services (3.8%)

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Lab/Div: INFORMATION TECHNOLOGY SERVICES
CYOP #: 052 ITS OPERATIONS - LA JOLLA
Current Yr Task #: 8L1C1A02 INFORMATION TECHNOLOGY SVCS

Date: 03/21/95
Prior Yr Task #:
Task Leader: ROLL

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
FULL TIME PERMANENT & TERM EMPLOYEES:							
1. BISTODEAU, ROBERT S	12	04	46,047	100.0	46,047	11/28/95	/ /
2. BONES, MATTHEW D	11	05	39,586	100.0	39,586	08/06/96	/ /
3. RALSTON JR, FRANK M	12	05	47,442	100.0	47,442	01/09/96	/ /
4. ROLL, DOROTHY D	13	00	59,460	100.0	59,460	/ /	/ /
5. VU, THANH HUYEN T	9	01	28,867	100.0	29,268	05/01/95	/ /

TOTAL FTE FTP POSITIONS= 5.000
TOTAL FTP SALARIES= 221,803

A. Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	221,803
[redacted] B. Employer Contribution (22%) = (A x .22)	=	48,796
C. Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
E. Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
F. Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

COMMENTS:

Total Labor (sum of A thru F)	=	**270,599**
Total Other (from page 2)	=	**41,000**
Total Estimated Task Cost	=	**311,599**

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

/Div: INFORMATION TECHNOLOGY SERVICES
P #: 052 ITS OPERATIONS - LA JOLLA
rent Yr Task #: 8L1C1C03 IT-95 - LA JOLLA

Date: 03/21/95
Prior Yr Task #:
Task Leader: ROLL

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
L TIME PERMANENT & TERM EMPLOYEES:							
JACOBSON, SUSAN	11	07	41,915	100.0	42,594	03/08/95	/ /

TOTAL FTE FTP POSITIONS= 1.000
TOTAL FTP SALARIES= 42,594

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	42,594
[redacted] B. Employer Contribution (22%) = (A x .22)	=	9,370
Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

OMMENTS:

Total Labor (sum of A thru F)	=	**51,964**
Total Other (from page 2)	=	**0**
Total Estimated Task Cost	=	**51,964**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 052 **Lab/Div:** La Jolla **Page:** 1

Title: INFORMATION TECHNOLOGY SERVICES

Leader: Dorothy D. Roll

Budget:

Personnel: $ 322.6K Other Objects: $ 41.0K Total: $ 363.6K

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWC1_____ Code_____ Code_____ Code_____

2. NOAA Strategic Plan Elements Supported by CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

3. Legislation Supported by CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

4. "Our Living Oceans" Units Associated with CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

5. Fishery Management Plans Associated with CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

6. Facilities Where CYOPs Activities Take Place

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

Information Technology Services (ITS) provides the professional computer technology support services for the Southwest Fisheries Science Center. To support the multi-disciplined environment in the Center, the broad spectrum of computer technology covers hardware, software, and network services.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To enable the Center's management, research, and administrative staff to effectively and efficiently perform their tasks to meet NMFS mission in the management of the living marine resources.

b) To

c) To

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

To fulfill the charter of ITS, the ITS staff stays abreast of the rapid paced changes in technology trends in the computer hardware, software, and telecommunication fields by

1) reviewing the weekly and monthly computer related magazines/newsletters,

2) evaluating off-the-shelf equipment and software to assess how they might contribute to the Center's productivity, and

3) attending formal advanced technical training workshops, seminars, and trade shows.

3. Products/Services

ITS serves

1) as the technical advisor to the SWC Science Director's Office in the development of long/short range information technology plans and the strategy for transition to the state-of-the-art computer resources and

2) as the service unit for the Center's staff by designing and implementing information management systems, maintaining the Voice Communication, Local Area Network, and Wide-Area Network services, providing the hardware and scientific equipment interface services, providing hardware, software, and telecommunication consulting services, and conducting/providing computer-related training programs.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

The primary clients for these services are the management, scientific, technical, and administrative staff at the La Jolla Laboratory.

The ITS staff provides information and assistance to the staff at the Southwest Region Office in Long Beach and the remote laboratories of the Southwest Fisheries Science Center: Honolulu, HI and Monterey and Tiburon, CA.

The ITS manager provides the liaison with NMFS Headquarters, other Fisheries Regions/Center, National Ocean Service, and other federal and state agencies.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

Telephone Maintenance	3.4%

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

ITS is a computer technology support group providing the management and research staff in fulfilling the strategic plans.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

ITS coordinates with the Director's Office, the Division Chiefs, and data managers of the divisions on their needs.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1C1A02			**AIMS PROJECT**		
	A		Gather compliance documents and data for Hazardous Materials System (HMS)	1/9/95	
	A		Begin and complete initial data entry into HMS	2/1/95	5/31/95
	E		Implement procedures for management/maintenance of HMS		6/1/95
	A		Management/maintenance of existing AIMS modules: SPS, personnel, travel, imprest fund, etc.	continuous	
	A		Evaluate AIMS modules for transition to new systems from DOS/NOAA/NMFS and/for future in-house development	continue to	9/30/95
	E		Implement electronic transfer of La Jolla's SPS data to WASC		3/15/95
			LAN IMPROVEMENTS		
	E		Upgrade LAN to WIN NT		3/31/95
	A		Install/test IT-95 NetBuilder II	3/1/95	
	E		Implement IT-95 NetBuilder II		6/30/95
	A		Install/test WIN Applications on LAN	4/1/95	
	E		Implement WIN APPS on LAN		9/30/95

(continued next page)

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1C1A02			**IT-95 TRANSITION**		
	A		Professional/self-training of ITS ORACLE and UNIX specialists	continuous	
	A		Provide ITS resources for re-design of database systems	continuous	
	A		Coordinate IT-95 training/ software conversion/WAN plans/activities - track costs for SWR and SWFSC	continuous	
	E		Submit sole source request for 2nd phase ORACLE support on database development		2/28/95
	E		Submit sole source request for continued UCSD facilities management of IT-95 host		4/17/95
	E		Implement NMFS WAN connect at La Jolla		5/1/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 054 **Lab/Div:** -Center **Page:** 1

Title: Hawaiian Fisheries Development (Aqua) PPA

Leader: Richard Neal

Budget:

Personnel: $ 0 K Other Objects: $452.2K Total: $452.2 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWC1 Code_____ Code_____ Code_____

2. NOAA Strategic Plan Elements Supported by CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

3. Legislation Supported by CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

4. "Our Living Oceans" Units Associated with CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

5. Fishery Management Plans Associated with CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

6. Facilities Where CYOPs Activities Take Place

Code: SWC1 Code:_____ Code:_____ Code:_____

Percent: 100 Percent:_____ Percent:_____ Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

It is perceived by some that expanded aquaculture activities in Hawaii could be carried out in a cost-effective manner so as to add to the State's economy. This research is aimed at fulfilling that idea. This is a Congressional add-on.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To

Unknown

b) To

c) To

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Because further work in this grant has been suspended by the Commerce Department's Inspector General until certain irregularities by the Oceanic Institute are cleared up. The objectives, methods, products, etc. are unknown.

3. Products/Services

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Congressional add-on; outside the strategic plan for fisheries.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 055 **Lab/Div:** Center **Page:** 1

Title: Hawaii Stock Management PPA

Leader: Richard Neal

Budget:

Personnel: $ 0 K Other Objects: $474.0K Total: $ 474.0 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWC1 Code_____ Code_____ Code_____

2. NOAA Strategic Plan Elements Supported by CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

3. Legislation Supported by CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

4. "Our Living Oceans" Units Associated with CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

5. Fishery Management Plans Associated with CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

6. Facilities Where CYOPs Activities Take Place

Code: SWC1 Code:_____ Code:_____ Code:_____

Percent: 100 Percent:_____ Percent:_____ Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To

b) To

c) To

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

3. Products/Services

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

6. **Justification:** (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

7. **Linkages** (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 056 **Lab/Div:** Center **Page:** 1

Title: Tuna/Billfish Pelagic Fishery Resources PPA

Leader:

Budget:

Personnel: $ 0 K Other Objects: $1895.0K Total: $1895.0K

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code SWC1 Code_____ Code_____ Code_____

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

3. **Legislation Supported by CYOP**

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

4. **"Our Living Oceans" Units Associated with CYOP**

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

5. **Fishery Management Plans Associated with CYOP**

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC1 Code:_____ Code:_____ Code:_____

Percent: 100 Percent:_____ Percent:_____ Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To

b) To

c) To

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

3. Products/Services

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: SENIOR SCIENTIST
#: 060 SENIOR SCIENTIST UNIT
ent Yr Task #: 8L1APRP1 SENIOR SCIENTIST UNIT

Date: 03/21/95
Prior Yr Task #:
Task Leader: PERRIN W

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
1. PERRIN, WILLIAM F	15	00	89,949	100.0	89,949	/ /	/ /
TOTAL FTE FTP POSITIONS= 1.000							
TOTAL FTP SALARIES= 89,949							
ORARY EMPLOYEES:							
ARCHER II, FREDERICK I	7	01	23,598	20.7	4,884	/ /	03/13/95
2. LE DUC, RICHARD G	7	01	23,598	29.9	7,055	/ /	10/06/95
TOTAL FTE TEMP POSITIONS= 0.506							
TOTAL TEMP SALARIES= 11,940							

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	89,949
[redacted] B. Employer Contribution (22%) = (A x .22)	=	19,788
Total Salaries of TEMPORARY EMPLOYEES	=	11,940
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	2,185
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MMENTS:

Total Labor (sum of A thru F)	=	**123,863**
Total Other (from page 2)	=	**23,100**
Total Estimated Task Cost	=	**146,963**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 060 **Lab/Div:** LJ Sr. Scientist **Page:** 1

Title: Senior Scientist

Leader: Perrin

Budget:

Personnel: $123.9K Other Objects: $23.1 K Total: $147.0 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code HQ Code SWR Code SWC2 Code DOC

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T2B	Code: T2A	Code: T20	Code: T30
Percent: 10	Percent: 20	Percent: 20	Percent: 50

3. Legislation Supported by CYOP

Code: MMPA	Code: ESA	Code: MA	Code:
Percent: 70	Percent: 20	Percent: 10	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code: 23	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

5. Fishery Management Plans Associated with CYOP

Code:	Code:	Code:	Code:
Percent:	Percent:	Percent:	Percent:

6. Facilities Where CYOPs Activities Take Place

Code: SWC1	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

National and international conservation and management of marine mammals.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To develop better understanding of marine mammal populations.

b) To develop improved methods for marine mammal conservation and management.

c) To improve international mechanisms for increasing knowledge of marine mammals and their problems.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

a) Research on population biology.

b) Advisory services to national and international agencies.

c) Editor of technical journal.

3. Products/Services

a) Scientific papers.

b) Advice on technical marine mammal issues.

c) Edited technical journal.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Clients are NOAA/NMFS managers, U.S. Marine Mammal Commission, IUCN, IWC and users of technical papers and Marine Mammal Science.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

None

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

The MMPA mandates NMFS/NOAA/DOC to protect and manage marine mammals. This authority has been delegated to SWC1 and SWC2, which in turn authorize technical research to support these mandated activities.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

The CYOP is closely coordinated with La Jolla/SWC1/MA in terms of cooperative research planning and execution.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
060	A	3	Collect data on spinner dolphins in Western Pacific.	A	J
	E	4	Participate in meeting of IWC Scientific Committee.	M	
	E	2	Complete draft report on 1994 spinner dolphin research.	F	
	E	1	Publication of IWC volume "Gillnets and Cetaceans."	D	

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: COASTAL FISHERIES RESOURCES DIVISION
#: 301 POPULATION BIOLOGY OF FISHES
ent Yr Task #: 8L1A3A30 POP BIO OF FISHES-GENERAL

Date: 03/21/95
Prior Yr Task #:
Task Leader: HUNTER

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
FOSTER, DIANE E	6	06	24,773	100.0	25,245	02/21/95	/ /
HUNTER, JOHN R	15	00	89,483	100.0	89,483	/ /	/ /
MACEWICZ, BEVERLY J	9	07	34,639	100.0	35,440	12/28/94	/ /
THOMSON, CYNTHIA J	12	05	47,442	0.0	0	10/17/95	/ /
TOTAL FTE FTP POSITIONS= 3.000 TOTAL FTP SALARIES= 150,168							
ORARY EMPLOYEES:							
AUSTIN, JOHN C	5	01	19,052	25.0	4,763	/ /	12/31/94
TOTAL FTE TEMP POSITIONS= 0.250 TOTAL TEMP SALARIES= 4,763							

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	150,168
[redacted] B. Employer Contribution (22%) = (A x .22)	=	33,036
otal Salaries of TEMPORARY EMPLOYEES	=	4,763
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	871
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MMENTS:

Total Labor (sum of A thru F) = 188,839
Total Other (from page 2) = 62,800
Total Estimated Task Cost = 251,639

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: COASTAL FISHERIES RESOURCES DIVISION
O #: 301 POPULATION BIOLOGY OF FISHES
ent Yr Task #: 8L1A3A31 POPULATION BIO OF FISHES

Date: 03/21/95
Prior Yr Task #:
Task Leader: VETTER

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
KIMBRELL, CAROL A	9	08	35,601	100.0	35,841	07/12/95	/ /
LYNN, ERIC A	9	08	35,601	100.0	35,601	03/20/96	/ /
ROBERTSON, LAWRENCE L	7	05	26,744	100.0	26,744	07/23/96	/ /
VETTER, RUSSELL D	13	00	54,756	100.0	54,756	/ /	/ /

TOTAL FTE FTP POSITIONS= 4.000
TOTAL FTP SALARIES= 152,942

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	152,942
[redacted] B. Employer Contribution (22%) = (A x .22)	=	33,647
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F)	=	**186,589**
Total Other (from page 2)	=	**15,000**
Total Estimated Task Cost	=	**201,589**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 301 **Lab/Div:** CFRD **Page:** 1

Title: Population Biology of Fishes

Leader: John Hunter

Budget: ~~$393~~ $375.4

Personnel: ~~$456.1K~~ Other Objects: ~~$ 55.0K~~ 77.8 Total: ~~$ 511.1K~~ 453.2

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWR Code PFMC Code CA DFG Code HQ
Code BLM Code USFWS Code USBR

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T1A Code: T1B Code: T1C Code: T2A Code: T2C Code: T3C

Percent: 38 Percent: 2 Percent: 38 Percent: 2 Percent: 10 Percent: 10

3. Legislation Supported by CYOP

Code: MA Code: ESA Code: AFA Code:

Percent: 80 Percent: 10 Percent: 10 Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code: 14 Code: 15 Code: 12 Code: 21

Percent: 38 Percent: 40 Percent: 20 Percent: 2

5. Fishery Management Plans Associated with CYOP

Code: 23 Code: 27 Code: 25 Code:

Percent: 10 Percent: 70 Percent: 20 Percent:

6. Facilities Where CYOPs Activities Take Place

Code: SWC1 Code: Code: Code:

Percent: 100 Percent: Percent: Percent:

1A. Problem Statement (What management or scientific problem does this YOP help solve?)

The California Current is the dominant oceanographic feature along he west coast of North America. Fisheries resources associated with the urrent can be divided into four groups for management purposes: highly igratory pelagic species (e.g. tuna's), near shore species (e.g. ockfishes, halibut), coastal pelagic species (e.g. sardine, mackerel and nchovy), and groundfish species (e.g. hake, Dover sole, and sablefish). he assessment of migratory pelagic and near shore fishery resources are he responsibility of other divisions and state agencies. The key esearch interest of this task is the assessment of coastal pelagic and roundfish stocks that are permanent residents of the California Current.

Coastal pelagic fisheries are difficult to assess and manage because f the large influence of the environment on year-class strength. actors such as El Niño conditions, upwelling events, and long-term limate oscillations can influence biomass more than fisheries harvest, aking predictions of exploitable biomass very difficult. An added ifficulty is the trans-border distribution of stocks, Mexico for sardine nd Canada for hake.

Groundfish resources are relatively easy to assess in terms of tanding stock, but their life histories are poorly known. Underestimates f age in fish living over 50 years can have very serious consequences hen used to calculate growth rates and sustainable yields for these eep-living, slow growing populations.

The over-all objective of this task is to refine methods of ssessing these stocks, and our understanding of the California Current, n an effort to improve fishery predictions. Because of specific xpertise possessed by task members, we have also undertaken cooperative fforts to assist in the management of anadromous and near shore stocks

B. Objectives (What are the major objectives being pursued by this YOP?)

a) Develop better methods of predicting biomass and future year class strength, primarily through novel measures of early life history parameters (fecundity, egg production, larval condition, etc.)

b. Develop more rapid and cost effective methods of determining stock size in pelagic species by application of laser-based technologies.

c) Develop alternate molecular methods of assessing: stock structure, growth rate, condition, and age when conventional methods are not applicable.

d) Gain a better understanding of the California Current and the effects of biological and physical factors on recruitment and stock structure.

e) Develop economic models that more accurately reflect the value of fisheries, the consequences of habitat degradation, and the relative benefits of different mitigation procedures.

. **Methodology/Approach** (How are the objectives being approached:what are ıe tactics that are being applied?)

This task has a long tradition of innovation, yet it has always been ɔmmitted to an ecosystem approach, and the acquisition of long-term data ıses such as CalCOFI. Methods such as the Egg Production Method for ılculating adult spawning biomass have become the method of choice for ishery organizations worldwide. Currently, we have a strong emphasis in ıree areas.

The first is developing molecular biological techniques as a way to ıswer long standing questions regarding the fishery resources of the alifornia Current. The California Current can influence recruitment ıccess by the physical transport of larvae, and by its influence on roductivity. We are attempting to use genetic markers to determine the ıfluence of current patterns on stock structure. We are developing olecular methods to determine the growth patterns of larvae and the mpact of climate changes, including ultraviolet radiation, on the ırvival of fish larvae. We are also developing methods by which the ıique genetic identity of a species can be used to identify fish larvae ıat can not be identified by other means.

The second is the application of laser-based (LIDAR) technologies to ssess pelagic fish stocks from airborne platforms.

The third is the development of economic models that allow a full ssessment of the value of anadromous and near shore fishery resources, ncluding their recreational value, to assess the consequences of habitat estruction & benefits of remediation.

Aside from these new approaches, the CalCOFI program forms the ackbone of our long-term research effort. Although sampling techniques re constantly being improved, the program provides a consistent and ontinuous record of the physical and biological features of the alifornia Current for the past 40 years.

. **Products/Services**

Estimates of economic value of fisheries. Abundance estimates for oastal pelagic species and groundfish. Improved stock assessment echniques. Recommendations for improved management and restoration of epleted stocks. Information regarding the genetic basis for stock dentification, and the preservation of genetic diversity. These roducts are developed as peer reviewed scientific papers whenever ossible. Estimates of economic loss associated with habitat estruction.

. **Clients/Suppliers** (Who uses the outputs or services? Upon whom is the roject dependent for inputs?)

The CalCOFI program was established as a joint effort of the alifornia Department of Fish and Game, the University of California and MFS. As such, all of the agencies depend on each other for funding and hare information.

Information and reports generated by this program are used by (1) he Pacific Fishery Management Council, (2) the Pacific States Marine

ishery Commission, (3) State/federal cooperative management efforts, (4) . S. government agents in fisheries currently or prospectively under nternational management, (5) U. S. representatives in international isheries investigations (e.g. Mexus-Pacifico), (6) government agents nat manage marine mammals and seabirds (coastal pelagic species are the rimary forage base). 7. Other public groups concerned with near shore cean management. We are the only molecular biology laboratory in the SW egion and as such we provide expertise in this area for the entire egion.

Government agents involved in environmental litigation or pursuing itigation for habitat losses.

. **Major Contracts** (List major contracts and provide approximate ercentage of total contract costs to total budget)

one.

. **Justification:** (What strategic plan, mandate or authority supports his projects' selection? Why was this problem chosen to be addressed; ow was its importance/priority determined?)

The collapse of the California sardine fishery was a pivotal event n the history of west coast fisheries. Research on population stability nd growth, and biomass estimation leading to the rebuilding of this mportant fishery is a central mission of NOAA. The hake is the most aluable groundfish on the west coast and cooperative studies with AFSC re needed on reproduction and recruitment processes to ensure continuing roductivity of this stock. The deep water trawl fishery is a relatively ew west coast fishery that targets with species with very slow growth ates and low productivity and additional life data are needed to guide anagers in their management. Both hake and the deep water complex are anaged under the west coast groundfish plan by the PFMC.

Economic effects of habitat destruction at Iron Mountain Mine are eing examined under the authority of Superfund legislation Comprehensive Environmental Response, Compensation and Liability Act or ERCLA). Additional economic analysis of the salmon fishery has been ongressionally mandated under the Central Valley Project Improvement Act CVPIA). Both analyses pertain to Sacramento River chinook salmon. The inter-run chinook currently receives special protection under the ndangered Species Act.

. **Linkages** (With whom is the CYOP coordinated? Indicate collaboration ith other facilities, personnel, budgets, agencies.)

The CalCOFI program is very interconnected. The coordination of ruises and sample processing involves every task in the Coastal ivision, as well as University scientists and California Fish and Game mployees. The annual CalCOFI meeting and the journal CalCOFI Reports romote the integration of results. The identification of rockfish arvae via genetic techniques was undertaken primarily to support the

ssessment needs of the Tiburon Laboratory. In addition, research on elagic fish is coordinated with Mexico through MEXUS Pacifico,

nternational GLOBEC-SPACC, and CalCOFI. Plans are underway to oordinate research on small pelagic fishes through the international rganizations of PICES and international GLOBEC-SPACC.

The Iron Mountain Mine analysis is being conducted in coordination ith the NOAA Damage Assessment Center as part of a legal case being ursued by NOAA, U.S. Fish and Wildlife Service, U.S. Bureau of eclamation, U.S. Bureau of Land Management and several state agencies, ncluding the California Department of Fish and Game.

The CVPIA analysis is a collaborative effort with the California epartment of Fish and Game, with funding and coordination provided by he U.S. Fish and Wildlife Service.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1A3A30	E	1	Complete camera ready report on Airborne Remote Sensing		4/95
"	E	2	Complete report on first science meeting of the GLOBEC International program "Small Pelagic fishes And Climate Change (SPACC), held in La Paz, Mexico		9/95
"	E	3	Complete ms. on the adult parameters used in the Joint EPM Biomass Estimate of the sardine population		10/95
"	A	4	Conduct studies on the fecundity, maturity and reproductive rates of hake	10/94	9/97
"	A	5	Coordinate international science program on small pelagic fishes	10/94	9/97
"	A	6	Coordinate joint science program on natural resources with Mexico	10/94	9/97
"	A	7	Coordinate joint fishery science program on hake with AFSC	10/94	9/97

"	E	8	Conduct preliminary field studies on use of lidar for the detection of fish schools		9/95
"	E	9	Manage joint 1995 CalCOFI symposium on the 1994 Mexico-U.S. joint research on sardine		10/95
"	E	10	Complete analysis of factors underlying major historical changes in the commercial and recreational salmon fisheries in California		9/95
8L1A3A30	E	11	Complete analysis of economic losses associated with acid mine drainage from Iron Mountain Mine		9/95
8L1A3A31	A	12	Sequence the cytochrome b gene from the majority of rockfish occurring off central and southern California to determine the phylogenetic relationships between species, and to provide a data base for the positive identification of larvae based on their genetic sequence	10/94	8/95
"	A	13	Develop methods for preservation, amplification and sequencing of DNA from larval rockfish occurring in ichthyoplankton tows off central California in order to identify specimens not identifiable by other means	10/94	2/96
"	E	14	Conduct final BURNM cruise to determine the effects of ultraviolet radiation on growth rates and survival of pelagic fish larvae		8/95
"	A	15	Complete manuscript on bathymetric distribution of Sebastolobus species off Oregon and central California (with L. Jacobson)	10/94	8/95

"	A	16	Complete manuscript on diel cycles of damage and repair in larval fishes exposed to natural levels of ultraviolet radiation	10/94	8/95
"	A	17	Complete manuscript on metabolic adaptations and bathymetric demography of Sebastolobus and Sebastes species on the upper continental slope with special regard to the oxygen minimum zone	10/94	8/95

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: COASTAL FISHERIES RESOURCES DIVISION
#: 304 FISHERIES ENVIRONMENT INVESIGATIONS
ent Yr Task #: 8L1A4B32 FISHERIES ENVIRONMENT INVES

Date: 03/21/95
Prior Yr Task #:
Task Leader: LYNN

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
BLISS, KENNETH A	11	10	45,408	100.0	45,408	/ /	/ /
DOTSON, RONALD C	11	06	40,750	100.0	40,750	08/06/96	/ /
LYNN, RONALD J	13	00	64,710	100.0	64,710	/ /	/ /
NISHIMOTO, ROBERT N	11	08	43,079	100.0	44,244	10/05/94	/ /

TOTAL FTE FTP POSITIONS= 4.000
TOTAL FTP SALARIES= 195,112

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	195,112
[redacted] B. Employer Contribution (22%) = (A x .22)	=	42,924
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F)	=	**238,036**
Total Other (from page 2)	=	**3,500**
Total Estimated Task Cost	=	**241,536**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 304 **Lab/Div:** COASTAL **Page:** 1

Title: Fisheries Environmental Investigations

Leader: Ronald Lynn

Budget:

Personnel: $238.0K Other Objects: $ 3.5K Total: $241.5 K

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code SWC3 Code SWC4 Code NESDIS Code

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code: T1A	Code: T1C	Code: T3C	Code:
Percent: 75	Percent: 15	Percent: 10	Percent:

3. **Legislation Supported by CYOP**

Code: MA	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

4. **"Our Living Oceans" Units Associated with CYOP**

Code: 14	Code: 15	Code:	Code:
Percent: 15	Percent: 85	Percent:	Percent:

5. **Fishery Management Plans Associated with CYOP**

Code: 23	Code: 27	Code:	Code:
Percent: 15	Percent: 85	Percent:	Percent:

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC1	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

The success of spawning, survival, growth, and recruitment of fishes are each impacted by marine environmental conditions. Understanding the relationship of life cycle processes and variations in year class strength to the variations in ocean forcing dynamics is needed in order to provide an effective scientific basis for the management of commercial and recreational fish stocks.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To observe and analyze and document the linkages between the variations in fish life cycles, especially recruitment, and the temporal and spatial variations in ocean dynamics and conditions.

b) To develop predictive skills for the effects upon fish populations of large interannual variations in ocean conditions such as El Niño and anti-El Niño events.

c) To gain a basic understanding of the potential effects of climate change upon the marine ecosystem and especially upon valued fish stocks.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

The ecosystem approach is followed in these studies to understand fish-ocean relationships needed for the effective management of selected California Current fish stocks. The research program is based on the analysis of field measurements, historical analysis and modeling. Physical process studies address the transport of early life stages by variable currents. Biological process studies will address the role of ocean circulation on stock structure and growth, and community dynamics. Modeling activities explore and synthesize the mechanistic relations between variability in physical oceanographic processes and early life stages of fishes. Research is focused on selected West coast groundfishes and coastal pelagics. In addition to utilize traditional biological and physical oceanographic approaches, extensive use is made of recent technological developments of satellite remote-sensing to the understanding of fish recruitment. This CYOP also supports the NOAA CoastWatch West Coast Regional site and the NOAA/NASA West Coast strategic site for acquiring SeaWiFS satellite ocean color data.

Products/Services

Scientific, peer-reviewed papers published in marine science literature; written and oral reports to the Pacific Fishery Management Council on the occurrence of unusual environmental events along the West Coast and the implications to fishery resources; redistribution of satellite data and data products; El Niño Watch Advisory.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Knowledge gained by this research will influence decisions made by the Pacific Fishery Management Councils and Statistical Committee in negotiations with other nations involved in West Coast fisheries. This CYOP is dependent upon collaboration with other programs within the Coastal Division.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

None

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

These projects are justified by the major goals of NOAA, NMFS, and the SWR // 1. Maintain productive fisheries and 2. Advance fish forecasting and ecosystem models. The hake fishery has the largest production (tonnage) of any fishery in the California Current system. CalCOFI data archives provide substantial background material to conduct these studies.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

This CYOP is an integral part of larger groundfish and coastal pelagics programs and is coordinated with Hunter (301), Smith (320), Moser (318), and Charter (319). There is collaboration with PFEG/ Schwing (901), S. Ralston/ Tiburon, Marine Life Research Group/ CalCOFI/ SIO. NOAA/COP CoastWatch and Ocean Color programs are integrated with this CYOP.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1A4B32	E	1	Conduct observational studies of hake/oceanography in cooperation with other division groups	1/95	5/95
"	E	2	Process, analyze, interpret hake/oceanographic observations and complete data report	5/95	12/95
"	A	3	Collaborate in writing manuscript on relationship of hake larval distribution to ocean dynamics	8/95	4/96
"	A	4	Participate in CalCOFI monitoring program as required	10/94	--
"	A	5	Continue collaborative CalCOFI research studies with SIO scientists	10/94	--
"	A	6	Maintain oceanographic equipment and computer systems for logging and analyzing oceanographic data	10/94	--
"	A	7	Manage CoastWatch and Ocean Color projects	10/94	--

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

iv: COASTAL FISHERIES RESOURCES DIVISION
#: 318 ECOLOGY & SYSTEMATICS OF FISHES - CALCOFI
nt Yr Task #: 8L1A3A33 ECOLOGY/SYSTEMATICS OF FISH

Date: 03/21/95
Prior Yr Task #:
Task Leader: MOSER

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
CUNA, ELAINE M	9	09	36,563	100.0	36,563	10/18/95	/ /
MBROSE, DAVID A	11	06	40,750	100.0	40,750	06/11/96	/ /
HARTER, SHARON R	9	04	31,753	100.0	31,833	09/05/95	/ /
OSER, H G	14	00	76,475	100.0	76,475	/ /	/ /
ATSON, WILLIAM N	11	06	40,750	100.0	40,750	06/25/96	/ /
TOTAL FTE FTP POSITIONS= 5.000							
TOTAL FTP SALARIES= 226,371							
TIME PERMANENT & TERM EMPLOYEES:							
OLLAK, NANCY A	5	02	19,686	41.7	8,451	11/28/94	02/27/95
TOTAL FTE PTP POSITIONS= 0.417							
TOTAL PTP SALARIES= 8,451							

tal Salaries of FTP, PTP, and TERM EMPLOYEES	=	234,822
[redacted] B. Employer Contribution (22%) = (A x .22)	=	51,661
tal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
emium Pay (Overtime, hazardous duty, night differential, etc.)	=	0
Total Labor (sum of A thru F)	=	**286,483**
Total Other (from page 2)	=	**15,000**
Total Estimated Task Cost	=	**301,483**

ENTS:

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 318 **Lab/Div:** CFRD **Page:** 1

Title: Ecology and Systematics of Fishes- CalCOFI

Leader: H. Geoffrey Moser

Budget:

Personnel: $286.5 K Other Objects: $15.0 K Total: $301.5 K

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code MMS Code CA DFG Code NWC Code SEC4

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code: T1A	Code: T1C	Code: T3A	Code: T3D
Percent: 50	Percent: 10	Percent: 20	Percent: 20

3. **Legislation Supported by CYOP**

Code: MA	Code:	Code:	Code:
Percent:	Percent:	Percent:	Percent:

4. **"Our Living Oceans" Units Associated with CYOP**

Code: 14	Code: 15	Code: 21	Code:
Percent: 40	Percent: 40	Percent: 20	Percent:

5. **Fishery Management Plans Associated with CYOP**

Code: 19	Code: 23	Code: 27	Code: 28
Percent: 30	Percent: 30	Percent: 30	Percent: 10

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC1	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement
This CYOP helps solve: (1) Need for accurate determination of biomass of fish stocks; (2) Need for assessing recruitment of fish stocks and forecasting year class strength; (3) Need for understanding how fluctuations in abundance and distribution of fish stocks are related to oceanographic flux and trophic interactions over short-term (seasonal/interannual) and long-term (decadal/climate) time scales.

1B. Objectives
a) To produce data, analyses, and publications on biomass assessment and recruitment of major coastal pelagic fish stocks (northern anchovy, Pacific sardine, Pacific mackerel, Jack mackerel).

b) To produce data, analyses, and publications on biomass assessment and recruitment of major groundfish stocks (Pacific hake, sablefish, Dover sole, rockfishes).

c) To describe fish community structure and interactions in the California Current region and develop analyses leading to the formulation of ecosystem models.

2. Methodology/Approach
Ichthyoplankton and associated environmental data from historical and current plankton and trawl surveys are utilized to produce data. Processing involves identification, enumeration, measurement, staging, computer entry, and analysis of approximately 500 species. Using this data, new methods are developed to measure biomass of coastal pelagic and groundfish species and to understand community ecology of California Current region. Examples are the egg production methods developed for coastal pelagics (eg., northern anchovy, Pacific sardine) and groundfish species (eg., Dover sole and sablefish).

3. Products/Services
(1) Data and analyses leading to estimation of biomass and recruitment of fish stocks; (2) Data bases and data reports documenting changes in distribution and abundance of eggs and larvae of fish species in the California Current region from 1939 to the present; (3) Ecological, community, and time series analyses elucidating species interactions and the effects of environment on fish abundance and distribution; (4) Scientific publications on new methodologies for assessing biomass and recruitment of important fish stocks; (5) Scientific publications (journal articles, comprehensive treatises) documenting fish reproduction and early life history; (6) Training courses on the use of ichthyoplankton techniques in stock assessment.

4. Clients/Suppliers
Clients: Fisheries and marine scientists in world-wide public and private institutions; fisheries managers and councils; fishing industry; private consulting firms and conservation agencies.
Suppliers: Collaborating oceanographers.

5. Major Contracts
Illustration for identification guide: 3% of total budget.

6. Justification:
This project is based on the following objectives of the NMFS Southwest Region Strategic Plan: (1) Rebuild overfished marine fisheries; (2) Maintain currently productive fisheries; (3) Advance fisheries forecasts and ecosystem models; (4) Integrate conservation of protected species and fisheries management; (5) Protect living marine resource habitat; (6) Improve the effectiveness of international fisheries relationships. Choices and priorities in the implementation of this program are based on priorities established in the strategic plan.

7. Linkages
This program is closely linked and has extensive collaboration with all other CFRD programs and particularly with Coastal & Pacific Fisheries Investigations (Richard Charter) and with Survey Systems Development and Evaluation (Paul Smith). The program continues a long history of collaborative interaction with other SWFSC laboratories (Honolulu, Bruce Mundy; Monterey, Boehlert; Tiburon, Lenarz, Ralston) and with ichthyoplankton groups at all NMFS centers (AFSC, Kendall; SEFSC, William Richards; NEFSC, Fahay; Systematics Laboratory, Bruce Collette). Minerals Management Service has funded the production of an identification guide to early stages of California Current region fishes. The program has close ties with: Scripps Institution of Oceanography (Richard Rosenblatt, George Hemingway, Mark Ohman, Michael Mullin, Loren Haury), the California Dept. of Fish and Game (Patricia Wolf, Thomas Barnes), Mexico (CICESE, CICIMAR, CIB, IPN, UNAM), and Canada (Nanaimo).

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	SEQ	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1A3A33	M	1	CalCOFI Ichthyoplankton guide: Complete illustrations, text, peer review, and publish book	9/94	9/95
"	A	2	Groundfish biomass assessment and recruitment: Participate in planning and conduct of Hake Survey Cruises and in analysis and publication of results	9/94	9/96
"	A	3	Groundfish biomass assessment and recruitment: Continue analysis and manuscript development resulting from past survey cruises (e.g., Dover sole, Thornyheads)	9/94	9/96

"	A	4	Complete identification of fish eggs and larvae from CalCOFI Ichthyoplankton Survey cruises 1985-present	7/95	9/97
"	A	5	Continue collaboration with Paul Smith on community ecology of fish species in the CalCOFI time series	9/94	9/96
"	A	6	Collaboration with John Butler on aging (dependent on hiring technician to prepare otoliths)		
"	A	7	Stage eggs for annual sardine and anchovy biomass estimates	2/95	9/95
"	A	8	Continue organization, curation, and archiving of CalCOFI ichthyoplankton collections	9/94	cont.
"	A	9	Continue to work up data on surface (neuston) samples, the MOPS and PODS cruises, and vertical distribution cruises	7/95	9/96
"	A	10	Continue studies on reproduction, functional morphology, and early life history strategies of fishes	9/94	cont.
"	A	11	Scientific services: Review and edit manuscripts and research proposal and participate in advisory panels	9/94	cont.
"	A	12	Provide consultation and training related to research on fisheries, ichthyoplankton methods, and reproductive biology of fishes	9/94	cont.

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: COASTAL FISHERIES RESOURCES DIVISION | **Date:** 03/21/95
#: 319 COASTAL & PACIFIC FISHERIES RESEARCH INVESTIGATION | **Prior Yr Task #:**
nt Yr Task #: 8L1A6A34 COASTAL & PAC FISH RES INV | **Task Leader:** CHARTER R

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
BRAMENKOFF, DIMITRY N	9	07	34,639	100.0	34,639	12/25/96	/ /
HARTER, RICHARD L	13	00	56,415	100.0	56,415	/ /	/ /
UNN, LUCY P	5	04	20,956	80.0	16,764	12/26/95	/ /
RIFFITH, DAVID A	11	04	38,421	100.0	38,421	07/23/96	/ /
ADDOX, M J	5	04	20,956	80.0	16,764	01/23/96	/ /
AYS, AMY E	5	03	20,321	96.0	19,761	05/29/95	/ /
ANION, SUSAN M	9	03	30,791	100.0	31,593	12/26/94	/ /
OCINICH, FRANCES R	5	03	20,321	40.0	8,276	03/20/95	/ /

TOTAL FTE FTP POSITIONS= 6.960
TOTAL FTP SALARIES= 222,635

tal Salaries of FTP, PTP, and TERM EMPLOYEES	=	222,635
[redacted] B. Employer Contribution (22%) = (A x .22)	=	48,979
tal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	80,000

ENTS:

Total Labor (sum of A thru F) = 351,615
Total Other (from page 2) = 47,100
Total Estimated Task Cost = 398,715

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 319 **Lab/Div:**SWFSC/CFRD **Page:** 1

Title: Coastal & Pacific Fisheries Resources Investigation

Leader: Richard Charter

Budget:

Personnel: $351.6K Other Objects: $47.0 K Total: $398.6 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code AKC Code CA DFG Code_____ Code_____

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T1A	Code: T1C	Code:_____	Code:_____
Percent: 85	Percent: 15	Percent:_____	Percent:_____

3. Legislation Supported by CYOP

Code: MA	Code:_____	Code:_____	Code:_____
Percent: 100	Percent:_____	Percent:_____	Percent:_____

4. "Our Living Oceans" Units Associated with CYOP

Code: 14	Code: 15	Code:_____	Code:_____
Percent: 60	Percent: 40	Percent:_____	Percent:_____

5. Fishery Management Plans Associated with CYOP

Code: 23	Code: 27	Code:_____	Code:_____
Percent: 50	Percent: 50	Percent:_____	Percent:_____

6. Facilities Where CYOPs Activities Take Place

Code: SWC1	Code:_____	Code:_____	Code:_____
Percent: 100	Percent:_____	Percent:_____	Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)
This task provides the basic information required for the annual assessment of stocks supporting California coastal fisheries. This task also provides all the logistics, staffing and data management for the California Cooperative Oceanographic Fisheries Investigation (CalCOFI).

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To provide logistics, staffing and data management for the CalCOFI program.

b) To provide logistics and staffing to conduct two groundfish cruises.

c) To convert the existing data base management system from the UCSD Vax system to the new IT-95 computer system.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)
We will complete six ichthyoplankton survey cruises collecting over 1500 plankton samples. All of the data from these cruises and samples will be processed by the personnel of this task and cooperating people from the University of California's Scripps Institution of Oceanography. These data will be added to the historical time series. We will also be updating and converting the CalCOFI historical data bases (1951 - 1994). The Aerial Marine Resources Monitoring (AMRMS) data bases will also be updated as we get new data.

3. Products/Services
The major products of this task are the CalCOFI data base, the AMRMS data base, and the newly acquired groundfish information. Major services include logistics for all the Coastal Division cruises, data base management and assistance in data analysis.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)
The main clients will be the Pacific Fishery Management Council, Scripps Institution of Oceanography and other NMFS fishery centers.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)
Aerial Spotter Contracts (26.0K) is set for data collection for the Aerial Marine Resource Monitoring System.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)
This task provides data is support of the Northern Anchovy Management plan, the CalCOFI program and the West Coast Groundfish plan. The work in the CalCOFI program is an agreement with California Department of Fish and Game and Scripps Institution of Oceanography. The work on pelagics and groundfish is to provide data for the Pacific Fishery Management Council.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)
All other task in the Coastal Fisheries Resources Division
Scripps Institution of Oceanography
California Department of Fish and Game
Tiburon
Alaska Fisheries Science Center

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1A6A34	A	1	Supervise and maintain timely sorting of plankton samples	10/94	9/95
"	A	2	Edit all data collected at sea: correct all errors, enter into CalCOFI data bases	10/94	9/95
"	A	3	Design cruises patterns, establish activities, prepare cruise announcements and reports	10/94	9/95
"	A	4	Prepare all seagoing equipment for cruises; design and construct experimental gear	10/94	9/95
"	A	5	Maintain close liaison with captain and crew of the R/V Jordan and staff of Marine Life Research Group at SIO	10/94	9/95

"	A	6	Maintain close liaison with captain and crew of ship of cooperative agencies	10/94	9/95
"	A	7	Consult with program leaders and retrieve data from CalCOFI data bases when needed	10/94	9/95
"	A	8	Update and maintain AMRMS (aerial survey) data bases	10/94	9/95
"	E	9	Complete conversion of CalCOFI data management system to the IT-95 computer system		9/95
"	A	10	Update the CalCOFI other fish larvae data bases for the years 1984 - 1994	5/94	9/96
"	A	11	Provide consultation to CFRD staff for all matters pertaining to purchase and maintenance of computer hardware and software	10/94	9/94
"	A	12	Provide expert advice to Center administration data management, shipboard computing, word processing, A-76, and IT-95	10/94	9/94
"	A	13	Design and complete two hake research cruise using both the 1-M MOCNESS and the 10-M MOCNESS	10/94	6/95
"	A	14	Design and develop ORACLE relational data bases for the CalCOFI data. Load the data into the relational data bases on the IT-95 host computer system	10/94	7/95

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: COASTAL FISHERIES RESOURCES DIVISION
O #: 320 SURVEY SYSTEMS ANALYSIS
nt Yr Task #: 8L1A6A35 SURVEY SYSTEMS DEV

Date: 03/21/95
Prior Yr Task #:
Task Leader: SMITH P

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
UTLER, JOHN L	12	05	47,442	100.0	48,256	03/21/95	/ /
O, NANCY C	13	09	64,860	100.0	64,860	07/12/95	/ /
MITH, PAUL E	14	00	76,475	100.0	76,475	/ /	/ /
TOTAL FTE FTP POSITIONS= 3.000							
TOTAL FTP SALARIES= 189,591							
R TIME PERMANENT & TERM EMPLOYEES:							
AHLIN, KATHERINE A	5	03	20,321	25.0	5,133	06/12/95	12/12/94
TOTAL FTE PTP POSITIONS= 0.250							
TOTAL PTP SALARIES= 5,133							
MORARY EMPLOYEES:							
YONS, MICHELE L	5	01	19,052	50.0	9,526	/ /	06/09/95
ATSUDA, MICHAEL T	4	01	17,029	40.0	6,811	/ /	06/26/95
TOTAL FTE TEMP POSITIONS= 0.900							
TOTAL TEMP SALARIES= 16,337							

tal Salaries of FTP, PTP, and TERM EMPLOYEES	=	194,724
[redacted] B. Employer Contribution (22%) = (A x .22)	=	42,839
tal Salaries of TEMPORARY EMPLOYEES	=	16,337
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	2,989
st of Living Allowance - Honolulu (22.5%) = ((Ä+C) x .225)	=	0
emium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F)	=	**256,890**
Total Other (from page 2)	=	**7,500**
Total Estimated Task Cost	=	**264,390**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 320 **Lab/Div:** Coastal **Page:** 1

Title: Survey Systems Analysis

Leader: Paul Smith

Budget:

Personnel: $256.9K Other Objects: $7.5K Total: $264.4K

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code CA DFG Code SIO/MLRG Code_____ Code_____

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code: T1A Code: T1C Code: T2A Code: T3A Code: T3C Code: T3D

Percent: 65 Percent: 15 Percent: 5 Percent: 5 Percent: 5 Percent: 5

3. **Legislation Supported by CYOP**

Code: ESA Code: MA Code: MFA Code: _____

Percent: 10 Percent: 80 Percent: 10 Percent: _____

4. **"Our Living Oceans" Units Associated with CYOP**

Code: 14 Code: 15 Code: _____ Code: _____

Percent: 60 Percent: 40 Percent: _____ Percent: _____

5. **Fishery Management Plans Associated with CYOP**

Code: 23 Code: 27 Code: _____ Code: _____

Percent: 60 Percent: 40 Percent: _____ Percent: _____

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC1 Code: _____ Code: _____ Code: _____

Percent: 100 Percent: _____ Percent: _____ Percent: _____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

Advanced demographic techniques are suitable for most fisheries management requirements: but, the population instability inherent in some fish stocks, particularly temperate clupeoids and gadoids, will require, in addition, recruitment projections to ensure that delays in evidence of over-fishing and population failure do not lead to population collapse and long-term losses in fish production and the subsequent economic and social disruption such failures cause.

A principle scientific problem being addressed is that these schooling coastal pelagic planktivores inhabit all of the temperate coasts of the world, constitute a quarter of world marine fish yield, and undergo decadal scale fluctuations in abundance which may become more dramatic or more problematic with climate change. It appears that the production of these stocks is markedly influenced within the first year of life before standard demographic techniques of assessment are applied.

Since these management and scientific problems arise in the life cycle long before standard assessments using catch analysis apply, it is necessary to devise precise and economical monitoring procedures for pre-recruitment processes. Since some of the processes are demographic, some processes involve the marine community, and some processes are principally features of the physical and chemical environment, ecosystem approaches are necessary. In this CYOP we will emphasize these processes in the Pacific hake which spawns off California and Baja California.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To conduct a series of assessments of age-specific growth rate of pre-recruit hake and a mortality rate in the first two months of life for the largest stock of fish on the west coast of North America.

b) To complete the multi-national assessment of Pacific sardine spawning biomass by the SWFSC daily egg production method from field work in FY 1994

c) To establish the maturation rate of Pacific sardine.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

a) With Scripps Institution of Oceanography, and all the tasks within the Coastal Division, conduct enhanced precision surveys newly designed to vary sampling effort as a function of contemporary measures of variance.

b) By a cooperative analysis [with Mexican educational and management agency personnel] of the FY 1994 coast-wide Sardine spawning survey.

c) By daily otolith growth increments and gonadal histology to resolve the issue of maturation in Pacific sardine.

3. Products/Services

New fundamental information on the pre-recruit vital parameters on the most important stocks of fish has originated in the Survey Systems task; large variability in production, our local stocks, the Pacific hake and the Pacific sardine, typify the highly variable stocks. We formulate cogent field and analytical tests of the success of spawning and continued recruit production at the earliest possible time.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?) The international, federal and state fishery management community is now stymied in the effective management of temperate coastal fishes with short life spans and high recruitment variability at the inter-annual and interdecadal time scales.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)
None.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Our principal goals in the Survey Systems Task are based on the NOAA plan: 1)assess the status of fisheries resources, 2) advance fishery prediction, 3) provide empirical data on recovering species like the Pacific sardine and Pacific mackerel, 4) design expanded ecosystems monitoring procedures, and 5) improve understanding of the causes of variability in commercial fish stocks. Our initiation and refinement of assessment procedures also contributes to the Global Climate Change initiatives through national and international GLOBEC (Small Pelagics Climate Change), PICES (Working Group 3 on Coastal Schooling Pelagic Fishes), CalCOFI, and MEXUS-Pacifico. OLO has recommended work on the 3-5 year ahead recruitment prediction for Pacific hake which is a major emphasis in this CYOP.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.) Because of the small size of this task, our principal linkages are with other tasks in the Coastal Division, the Marine Life Research Group and Biological Oceanography Curricular Group of the University of California San Diego, the marine bird research group of the University of California Irvine, and the Wildlife group of the University of California Davis. We also supply time series data (a one of kind commodity in the Coastal Division) to fisheries labs in Great Britain and academic researchers.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1A6A35	E	1	Manuscript on the seasonal distribution of survival of Pacific sardines in 1994 (Butler)	10/94	6/95
"	E	2	Manuscript on the maturation of Pacific sardine using daily increments in Pacific sardine otoliths from 1994 EPM Survey (Butler)	10/94	9/95
"	A	3	Analyze otoliths of Pacific hake larvae to determine growth rate (Butler)	5/95	5/96
"	E	4	Manuscript on the direct coast-wide estimation Pacific sardine spawning biomass using the 1994 EPM cooperative surveys (Lo)		10/95
"	E	5	Review Manuscript on quantitative ichthyoplankton procedures for estimating spawning biomass (Australian invited paper - Lo)		6/95
"	E	6	Manuscript on the Feasibility of using LIDAR for assessing epipelagic schooling fishes (Lo)		6/95
"	A	7	Implement adaptive sampling on hake larval surveys off California (Lo, Smith)	3/95	5/95
"	A	8	Conduct hake larval growth surveys (Smith, Lynn, Moser Charter, Lo)	3/95	5/95

"	E	9	Manuscript on the warm spell of 1992 in the southern California bight (Smith)		1/95
"	E	10	Manuscript on the synthesis of information of Pacific hake (Smith)		1/95
"	E	11	Manuscript on the relation between larval assemblage and larval abundance (Smith, Moser)		6/95

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

iv: COASTAL FISHERIES RESOURCES DIVISION
#: 330 COMM. & REC. FISH. RES. FOR MGMT.
nt Yr Task #: 8L1C2A30 COMM & REC FISH RES FOR MGT

Date: 03/21/95
Prior Yr Task #:
Task Leader: JACOBSON L

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
ERRICK JR, SAMUEL F	13	06	58,074	100.0	58,074	08/06/96	/ /
ACOBSON, LAWRENCE D	14	00	60,785	100.0	60,785	/ /	/ /
QUIRES, DALE E	13	00	54,756	100.0	54,756	/ /	/ /
TOTAL FTE FTP POSITIONS= 3.000							
TOTAL FTP SALARIES= 173,615							
RARY EMPLOYEES:							
ADER, BYRON L	5	01	19,052	50.0	9,526	/ /	12/31/94
TOTAL FTE TEMP POSITIONS= 0.500							
TOTAL TEMP SALARIES= 9,526							

tal Salaries of FTP, PTP, and TERM EMPLOYEES	=	173,615
[redacted] B. Employer Contribution (22%) = (A x .22)	=	38,195
tal Salaries of TEMPORARY EMPLOYEES	=	9,526
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	1,743
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
emium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F) = 223,079
Total Other (from page 2) = 13,000
Total Estimated Task Cost = 236,079

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 330 **Lab/Div:** La Jolla/Coastal **Page:** 1

Title: Comm. & Rec. Fish. Res. for Mgmt.

Leader: Larry Jacobson

Budget:

Personnel: $223.1K Other Objects: $13.0 K Total: $236.1 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWC1 Code PFMC Code CDFG Code

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T1A	Code: T2C	Code: T3D	Code: T3F
Percent: 50	Percent: 25	Percent: 15	Percent: 10

3. Legislation Supported by CYOP

Code: MA	Code: MMPA	Code: ESA	Code:
Percent: 90	Percent: 5	Percent: 5	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code: 14	Code: 15	Code: 23	Code:
Percent: 40	Percent: 55	Percent: 5	Percent:

5. Fishery Management Plans Associated with CYOP

Code: CPS (draft)	Code: 27	Code: 23	Code:
Percent: 30	Percent: 50	Percent: 20	Percent:

6. Facilities Where CYOPs Activities Take Place

Code: SWC1	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

What is OY and how should it be obtained from coastal pelagic and groundfish fisheries?

How should limited entry systems be designed?

How can scientists predict and estimate economic and biological effects of management actions?

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To produce biomass estimates used by managers in setting fishery quotas for coastal pelagic species and groundfish

b) To predict economic effects of fishery management decisions

c) To develop statistical and economic models for assessment and prediction of fishery performance

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Biological and economic models based on data collected by other tasks and agencies

Outreach and collaboration with managers (Pacific Fishery Management Council and California Department of Fish and Game)

3. Products/Services
Biological and economic descriptions of fishery status

Analysis of biological and economic effects from proposed managment options

Better models for assessment of stocks and prediction of economic and biological events

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Clients: Pacific Fishery Management Council and California Department of Fish and Game

Suppliers: Other tasks in Division and California Department of Fish and Game

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

None

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Coastal pelagic fisheries are potentially among the largest and most valuable along the west coast. Pelagics are important forage items for many predators including commercially and recrationally important fish, marine mammals and several endangered species. NMFS has developed a draft FMP for coastal pelagic species.

Economic factors have become increasingly important in FMP management of groundfish as stocks have become fully exploited and the fishery overcapitalized. All measures used by managers have economic dimenstions that must be analyzed.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

Pacific Fishery Management Council; California Department of Fish and Game; other tasks in Division

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1C2A30	M	1	Assist CDFG with sardine biomass estimate	10/94	1/95
"	M	2	Assist CDFG with Pacific mackerel biomass estimate	1/95	3/95
"	M	3	Biomass estimate for northern anchovy with SAFE report	6/95	8/95
"	M	4	Description of rockfish fishery for Pacific Fishery Mgmt. Council	1/95	10/95
"	M	5	Scientific paper describing regime shifts in Pacific sardine	1/95	10/95

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: PELAGIC FISHERIES RESOURCES DIVISION
O #: 401 LARGE PELAGICS STOCK INVESTIGATION
ent Yr Task #: 8L1A6A40 TUNA/LARGE PELAGICS INVEST

Date: 03/21/95
Prior Yr Task #:
Task Leader: BARTOO

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
AU, DAVID W	13	07	59,733	100.0	61,254	11/30/94	/ /
BARTOO, NORMAN W	14	00	67,629	100.0	67,629	/ /	/ /
RAMON, DARLENE A	7	02	24,385	100.0	24,647	06/26/95	/ /
TOTAL FTE FTP POSITIONS= 3.000							
TOTAL FTP SALARIES= 153,530							
ORARY EMPLOYEES:							
FORNEY, ERIC			14,400	25.0	3,600	/ /	/ /
TOTAL FTE TEMP POSITIONS= 0.250							
TOTAL TEMP SALARIES= 3,600							

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	153,530
[redacted] B. Employer Contribution (22%) = (A x .22)	=	33,776
otal Salaries of TEMPORARY EMPLOYEES	=	3,600
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	658
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MMENTS:

Total Labor (sum of A thru F)	=	**191,565**
Total Other (from page 2)	=	**99,200**
Total Estimated Task Cost	=	**290,765**

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: PELAGIC FISHERIES RESOURCES DIVISION
#: 401 LARGE PELAGICS STOCK INVESTIGATION
ent Yr Task #: 8L1A6A41 BILLFISH & SHARKS

Date: 03/21/95
Prior Yr Task #:
Task Leader: BARTOO

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
HOLTS, DAVID B	12	04	46,047	100.0	46,047	02/06/96	/ /

TOTAL FTE FTP POSITIONS= 1.000
TOTAL FTP SALARIES= 46,047

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	46,047
[redacted] B. Employer Contribution (22%) = (A x .22)	=	10,130
Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x..183)	=	0
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MMENTS:

Total Labor (sum of A thru F)	=	**56,177**
Total Other (from page 2)	=	**16,100**
Total Estimated Task Cost	=	**72,277**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 401 **Lab/Div:** SWFSC/PFRD **Page:** 1

Title: Large Pelagic Stock Investigation

Leader: N. Bartoo

Budget:

Personnel: $247.~~1~~.8K Other Objects: $115.3K Total: $ ~~362.4~~ 363.1 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWC1 Code_____ Code_____ Code_____

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T1A Code: T34 Code: T1C Code:_____

Percent: 45 Percent: 35 Percent: 20 Percent:_____

3. Legislation Supported by CYOP

Code: MA Code: MFA Code:_____ Code:_____

Percent: 50 Percent: 50 Percent:_____ Percent:_____

4. "Our Living Oceans" Units Associated with CYOP

Code: 18 Code: 15 Code:_____ Code:_____

Percent: 80 Percent: 20 Percent:_____ Percent:_____

5. Fishery Management Plans Associated with CYOP

Code: 27 Code:_____ Code:_____ Code:_____

Percent: 20 Percent: 80 Percent:_____ Percent:_____

6. Facilities Where CYOPs Activities Take Place

Code: SWC1 Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

This task investigates and provides advice and information on stocks of large pelagics found in both the Oceanic ecosystem and the California Current ecosystems of the Pacific Ocean. Investigations and work plans are formulated to meet requirements specified by NMFS resource managers, international fisheries agreements (IATTC, ICCAT, IOFC, IPTP, S. Pacific Tuna Treaty) and regional fisheries management councils (Pacific and Western Pacific). The data and advice are used in management negotiations and discussions regarding access, exploitation, rebuilding, and protection of the resources, and for management of the fisheries. Accomplishments of this task directly support the NMFS objectives of maintaining currently productive fisheries and improving the effectiveness of international fisheries relationships.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To produce up-to-date stock assessments

b) To provide fisheries forecasts for the West Coast albacore fisheries

c) To contribute information on the population biology of North Pacific tunas, billfishes and sharks

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

This task collects data and biological information developed from experiments and fishery sampling and integrates similar data generated by related tasks. The adequacy and accuracy of data and information are assessed, and appropriate fisheries and ecological models are employed or developed to produce required assessments and advice.

3. Products/Services

Products are scientific reports and publications providing assessments and ecological information and data on stocks and fisheries as required. Products are distributed in the form of internal reports, newsletters, SWFC Administrative Reports, NOAA Technical Memorandums, and various technical publications.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Principal clients include NMFS managers, U.S. Government commissioners to international organizations, SSC of regional councils, industry leaders, and SWFSC scientists. Input information is from industry leaders and foreign scientists.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Activities are carried out to support U.S. formal and informal agreements with foreign countries and international organizations.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

This CYOP is linked to CYOP 411, 421 and 431 at SWC1, and CYOP 720, 721 and 722 at SWC2.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1A6A40	A	1	Produce and publish chapters for Blue Book/National SOS reports. Support Western Pacific Council large pelagics team.	Oct '94	Sep '95
8L1A6A40	A	2	Prepare Albacore Forecast/ maintain constituent contacts.	Oct '94	Sep '95
8L1A6A40	E	3	Co-host International Symposium on Pacific Swordfish. Produce workshop documentation.	Dec. '94	Dec '94
8L1A6A40	E	4	Participate in 14th North Pacific Albacore Workshop. Arrange sequence for future meetings. Produce documents for workshop.	Apr. '95	Apr '95
8L1A6A40	A	5	Publish results on S. Pacific albacore maturity/ spawning; effects of presevation on data; analyze N. Pac. maturity samples.	Oct '94	Sep '95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1A6A41	A	6	Conduct and report on mako index cruise.	Sep '95	Sep '95
8L1A6A41	M	7	Publish Billfish Newsletter.	Jan '95	Jun '95

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: PELAGIC FISHERIES RESOURCES DIVISION
C #: 411 MULTISPECIES DATA COLLECTION & EVALUATION
ent Yr Task #: 8L1A6A42 MULTI DATA COLL & EVAL-TUNA

Date: 03/21/95
Prior Yr Task #:
Task Leader: COAN

	Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
	TIME PERMANENT & TERM EMPLOYEES:							
1.	CHILDERS, JOHN F	7	01	23,598	100.0	24,188	01/23/95	01/22/96
2.	COAN JR, ATILIO L	13	00	58,075	80.0	46,460	/ /	/ /
3.	DEALY, DONNA A	9	02	29,829	100.0	29,989	08/07/95	08/08/97
4.	JACKSON, ALAN R	11	04	38,421	100.0	38,421	07/09/96	/ /
5.	PERRIN, CHRISTINA H	11	07	41,915	20.0	8,538	02/08/95	/ /
6.	PRESCOTT, DOUGLAS W	9	04	31,753	100.0	31,753	06/25/96	/ /

TOTAL FTE FTP POSITIONS= 5.000
TOTAL FTP SALARIES= 179,349

otal Salaries of FTP, PTP, and TERM EMPLOYEES		=	179,349
[redacted]	B. Employer Contribution (22%) = (A x .22)	=	39,456
otal Salaries of TEMPORARY EMPLOYEES		=	0
[redacted]	D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)		=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)		=	0

MENTS:

Total Labor (sum of A thru F) = 218,806
Total Other (from page 2) = 19,000
Total Estimated Task Cost = 237,806

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: PELAGIC FISHERIES RESOURCES DIVISION
D #: 411 MULTISPECIES DATA COLLECTION & EVALUATION
ent Yr Task #: 8L1C1V40 MULTI DATA COLL & EVAL-MM

Date: 03/21/95
Prior Yr Task #:
Task Leader: COAN

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
L TIME PERMANENT & TERM EMPLOYEES:							
COAN JR, ATILIO L	13	00	58,075	20.0	11,615	/ /	/ /
PERRIN, CHRISTINA H	11	07	41,915	80.0	34,152	02/08/95	/ /
RASMUSSEN, RANDALL C	8	10	33,979	100.0	33,979	/ /	/ /
WALLACE, KENNETH E	12	05	47,442	100.0	47,442	09/20/94	/ /

TOTAL FTE FTP POSITIONS= 3.000
TOTAL FTP SALARIES= 127,188

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	127,188
[redacted] B. Employer Contribution (22%) = (A x .22)	=	27,981
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F) = 155,170
Total Other (from page 2) = 6,900
Total Estimated Task Cost = 162,070

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 411 **Lab/Div:** SWFSC/PFRD **Page:** 1

Title: Multispecies Data Collection and Evaluation

Leader: A. Coan

Budget:

Personnel: $374.0K Other Objects: $25.9 K Total: ~~$400.2~~ 399.9 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWC1 Code_____ Code_____ Code_____

2. NOAA Strategic Plan Elements Supported by CYOP

Code:	Code:	Code:	Code:
T1A	T2A	T2C	T3A
Percent:	Percent: 20	Percent: 10	Percent:

3. Legislation Supported by CYOP

Code:	Code:	Code:	Code:
MA	MMPA	MFA	
Percent: 30	Percent: 20	Percent: 50	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code:	Code:	Code:	Code:
18	23	24	
Percent: 70	Percent: 20	Percent: 10	Percent:

5. Fishery Management Plans Associated with CYOP

Code:	Code:	Code:	Code:
27	34		
Percent: 20	Percent: 10	Percent: 70	Percent:

6. Facilities Where CYOPs Activities Take Place

Code:	Code:	Code:	Code:
SWC1			
Percent:	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

Monitoring ecosystems and forecasting changes in marine resources require collection of data pertinent to the resource and environment, as well as maintaining the data in easily accessible databases for review, analysis and dissemination of these data. The objective of this task is to collect required data from various published sources, from established data objectives being pursued by this CYOP?) exchange agreements, and from actual field sampling programs. This task is also responsible for using state of the art automated data systems for archiving and processing the data. Data collection and bases being maintained include Atlantic, Pacific, and Indian Ocean large pelagics data and marine mammal observer data. Accomplishment of this task contributes directly to the NMFS objectives of maintaining currently productive fisheries, integrating conservation of protected species and improving the effectiveness of international fisheries relationships.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To process and maintain data for a SWC global tuna base and analysis

b) To manage data collected on marine mammals

c) To evaluate sampling design and provide support for sampling activities

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

This task routinely handles tuna-dolphin observer data, coastal gillnet observer data, tuna fisheries data, and other data collected from field experiments, expeditions, and port sampling. Various sources including publications, international contacts, data exchange agreements, etc. are used. This task also uses statistical methodologies to develop and maintain field sampling programs for the collection of information on fisheries for large pelagics, and for collection of information on marine mammals. Up-to-date computer technologies are used to develop and maintain data base systems and to provide software for supporting analyses of oceanic and California Current ecosystems, and resource forecasting for large pelagic stocks and marine mammals.

3. Products/Services

Principal products of this task are software, data bases and data collection systems in support of research. This task provides annual summaries and analyses of data by fisheries for use in stock assessments and fisheries evaluations.

NARRATIVE SECTION (cont.)

4. **Clients/Suppliers** (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Products and services produced by this task are made available for use by other SWFSC tasks for various foreign and domestic fisheries management organizations, NOAA fishery administrators, industry and constituency groups and fishery managers. Data are also used by contituency groups involved in fishery development, and marine mammal and large pelagics issues.

5. **Major Contracts** (List major contracts and provide approximate percentage of total contract costs to total budget)

Key Punch - various private companies
Microfilming - various private companies
Data base development - Private companies

6. **Justification:** (What strategic plan, mandate or authority supports this projects selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Activities are carried out to support U.S. formal and informal agreements with foreign countries and international organizations.

7. **Linkages** (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

This CYOP is linked to CYOP 401, 421, and 431 at SWC1, and CYOP 720, 721 and 722 at SWC2.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1A6A42	A	1	Develop and maintain data bases for Pacific Ocean and Indian Ocean tunas and other large pelagics.	Oct '94	Sep '95
8L1A6A42	E	2	Produce quarterly "Tuna Newsletter".	Nov '94, Feb '95, May '95, Aug '95	

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

ARRATIVE SECTION (cont.)

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
L1A6A42	M	3	Produce report summarizing data for the 1992-93 U.S. fisheries for albacore in the North and South Pacific Ocean.	Jul '95	Jul '95
3L1A6A42	A	4	Process and submit data from S.Pac. Tuna Treaty	Oct '94	Aug '95
3L1A6A42	A	5	Provide PFRD with software and hardware support.	Oct '94	Sep '95
8L1C1V40	A	6	Provide MMD with software and hardware support	Oct '94	Sep '95
8L1C1V40	A	7	Produce comprehensive data base edits in support of marine mammal observer data analyses.	Oct '94	Sep '95
8L1C1V40	E	8	Develop and maintain data bases for marine mammals.	Oct '94	Sep 94
8L1C1V40	E	9	Participate in and process data from eastern tropical Pacific marine mammal research cruises.	Oct '94	Sep 94

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

iv: PELAGIC FISHERIES RESOURCES DIVISION
#: 421 OCEANIC FISHERIES INVESTIGATION
nt Yr Task #: 8L1C1AM8 PELAGIC FISHERIES EVAL

Date: 03/21/95
Prior Yr Task #:
Task Leader: SAKAGAWA

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
ANDSCHUH, KAREN R	6	08	26,188	100.0	26,188	09/04/96	/ /
AKAGAWA, GARY T	15	00	89,949	100.0	89,949	/ /	/ /

TOTAL FTE FTP POSITIONS= 2.000
TOTAL FTP SALARIES= 116,137

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	116,137
[redacted] B. Employer Contribution (22%) = (A x .22)	=	25,550
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F) = 141,687
Total Other (from page 2) = 30,700
Total Estimated Task Cost = 172,387

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 421 **Lab/Div:** SWFSC/PFRD **Page:** 1

Title: Oceanic Fisheries Evaluation

Leader: Gary Sakagawa

Budget:

Personnel: $ 141.7K Other Objects: $30.7 K Total: $172.4 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWC1 Code _____ Code _____ Code _____

2. NOAA Strategic Plan Elements Supported by CYOP

Code:	T1A	Code:	T1G	Code:	T3A	Code:	T3B
Percent:	50	Percent:	10	Percent:	20	Percent:	20

3. Legislation Supported by CYOP

Code:	MA	Code:	MFA	Code:	MPA	Code:	
Percent:	50	Percent:	40	Percent:	10	Percent:	

4. "Our Living Oceans" Units Associated with CYOP

Code:	18	Code:		Code:		Code:	
Percent:	100	Percent:		Percent:		Percent:	

5. Fishery Management Plans Associated with CYOP

Code:	27	Code:	34	Code:		Code:	
Percent:	10	Percent:	20	Percent:	70	Percent:	

6. Facilities Where CYOPs Activities Take Place

Code:	SWC1	Code:	SWC2	Code:		Code:	
Percent:	90	Percent:	10	Percent:		Percent:	

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

This task monitors tuna fisheries production, developments, and trade on a global scale for analyses of stock condition and fisheries performance. Liaison with oreign scientists is also an ongoing activity of this task as a means for securing fishery and scientific data on exploited stocks and for coordinating SWFSC scientists' involvement in international research projects.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To provide up-to-date fisheries evaluations and fishery management advice.

b) To conduct stock assessments.

c) To monitor tuna fisheries developments.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Informal and formal agreements for exchange of fishery data and for cooperative scientific investigations are used. These agreements form a network that involves both international and domestic collaborators. The network is used by SWFSC to secure data and for maintaining collaborative research which contributes to the objective of monitoring and assessing stock condition of tuna and billfish stocks of interest to the U.S.

3. Products/Services

Results of this task are prepared for publication in scientific journals, internal reports and newsletters, and for oral presentations to NMFS managers, U.S. Commissions, etc. This task also serves as a public source for current data and information on the tuna fisheries and condition of the tuna stocks. A visible product of this task is the quarterly newsletter, Tuna Newsletter, which is available to collaborators and the public. Results of this task contribute to the NMFS strategic initiative of rebuilding U.S. fisheries by reducing overfishing and maintaining current productive fisheries.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

The clients vary, depending on the information. The task results, however, receive wide distribution, both domestically and foreign, to tuna industry personnel, scientists, government officials, fishery managers and agency administrators.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

6. Justification: (What strategic plan, mandate or authority supports this projects selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Activities are carried out to support U.S. formal and informal agreements with foreign countries and international organizations.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

This CYOP is linked to CYOP 401, 411, and 431 at SWC1, and CYOP 720, 721 and 722 at SWC2.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1C1AM8	A	1	Provide scientific advice, as required for tuna negotiations, international agreements, and Council FMPs.	Oct '94	Sep '95
8L1C1AM8	A	2	Monitor and evaluate studies on tuna stock condition and fisheries of the eastern tropical Pacific, central-western Pacific, and Indian Ocean.	Oct. '94	Sep. '95
8L1C1AM8	A	3	Coordinate SWFSC highly migratory species research and supervise maintenance of the global data base.	Oct. '94	Sep. '95
8L1C1AM8	E	4	Edit and supervise publication of the report of the 4th WPYRG annual meeting.	Oct. '94	Sep. '95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

MILESTONES, EVENTS AND ACTIVITIES SECTION (cont.)

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1C1AM8	A	5	Provide analyses and information for science agreements on tuna and tuna-like species.	Oct. '94	Sep. '95
8L1C1AM8	A	6	Prepare paper on supply of swordfish for U.S. consumers.	Oct. '94	Dec. '94

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: PELAGIC FISHERIES RESOURCES DIVISION
Prj: 431 PELAGIC ECOSYSTEM MODELING
Cnt Yr Task #: 8L1A6A44 PELAGIC ECOSYSTEM MODELING

Date: 03/21/95
Prior Yr Task #:
Task Leader: KLEIBER

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
ALL TIME PERMANENT & TERM EMPLOYEES:							
KLEIBER, PIERRE M	13	00	61,588	100.0	61,588	/ /	/ /

TOTAL FTE FTP POSITIONS= 1.000
TOTAL FTP SALARIES= 61,588

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	61,588
[redacted] B. Employer Contribution (22%) = (A x .22)	=	13,549
Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

COMMENTS:

Total Labor (sum of A thru F)	=	75,137
Total Other (from page 2)	=	4,500
Total Estimated Task Cost	=	79,637

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 431 **Lab/Div:** SWFSC/PFRD **Page:** 1

Title: Pelagic Ecosystem Modeling

Leader: Pierre Kleiber

Budget:

Personnel: $75.1 K Other Objects: $4.5 K Total: $79.6 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWC1 Code _____ Code _____ Code _____

2. NOAA Strategic Plan Elements Supported by CYOP

Code:	T3A	Code:	T3B	Code:	T3A	Code:	T3D
Percent:	40	Percent:	10	Percent:	40	Percent:	10

3. Legislation Supported by CYOP

Code:	MA	Code:	MFA	Code:	MMPA	Code:	
Percent:	60	Percent:	30	Percent:	10	Percent:	

4. "Our Living Oceans" Units Associated with CYOP

Code:	18	Code:	23	Code:		Code:	
Percent:	90	Percent:	10	Percent:		Percent:	

5. Fishery Management Plans Associated with CYOP

Code:	27	Code:	34	Code:		Code:	
Percent:	10	Percent:	10	Percent:	80	Percent:	

6. Facilities Where CYOPs Activities Take Place

Code:	SWC1	Code:		Code:		Code:	
Percent:	100	Percent:		Percent:		Percent:	

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

This task evaluates current stock assessment models and techniques for accuracy and relevancy of information for management advice of pelagic fisheries. It also assists in designing and conducting stock assessments and in planning and evaluating sampling projects, objectives being pursued by this particularly for the western Pacific tropical tuna fisheries. Accomplishments of this task contribute to the NMFS objectives of maintaining currently productive fisheries and improving the effectiveness of international fisheries relationships.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To design and conduct stock assessments

b) To develop accurate forecasting models

c) To

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

The principal method is to use conventional and simulation models. The models are used for stock assessments and to pinpoint areas where lack of ecological understanding might lead to deficiencies in proper resource evaluation and management advice. They are also used to simulate conditions when accurate data on such conditions are lacking or when "what if" scenarios need to be explored for evaluating management options. The results are then used to guide the evaluation of assessment results, the collection of additional or more reliable data, and the preparation of management advice.

3. Products/Services

The products are scientific publications, internal reports, and oral presentations which are disseminated to parties, including NMFS scientists and managers, U.S. commissioners and Fishery Management Council members. Services include consultation with officials and scientists to review results and to guide followup activities.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

The clients are mostly U.S. fishery management professionals involved in execution of the FMCA, MMPA, and tuna treaties as well as resource scientists in various domestic, foreign and international institutions and agencies.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Activities are carried out to support U.S. formal and informal agreements with foreign countries and international organizations.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

This CYOP is linked to CYOP 401, 411, and 421 at SWC1 and CYOP 720, 721 and 722 at SWC2.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)					
8L1A6A44	A	1	Cooperate in the scientific workplan of the International Symposium on Pacific Swordfish.	Oct '94	Jan '95
			Conduct analysis of CPUE for swordfish from Japanese, Korean, and Taiwanese longline data.	Oct '94	Jan '95
			Present analysis at meeting, in Ensenada.	Dec '94	Dec '94
8L1A6A44	E	2	Assist analysis of trans-Atlantic YFT movement for presentation at FAO interaction consultation.	Oct '94	Nov '94
			Presentation on types of fishery interaction for FAO interaction consultation.	Jan '95	Jan '95
			Presentation on development of YFT assessment model for FAO interaction consultation.	Jan '95	Jan '95

MILESTONES, EVENTS AND ACTIVITIES SECTION (cont.)

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
			Conduct interactive demo on fishery interaction for FAO interaction consultation.	Jan '95	Jan '95
8L1A6A44	A	3	Cooperate in the scientific workplan of the Western Pacific Yellowfin Tuna Research Group.	Oct '94	Sep '95
			As part of WPYRG workplan participate in develop-ment of integrated YFT assessment model.	Oct '94	Sep '95
			As part of WPYRG workplan, collaborate with J. Sibert to develop proposal for investigating affect of YFT schooling dynamics on analysis of tag data and other assessment analyses.	Jan '95	Jun '95
8L1A6A44	E	4	Assist in editing and publication of WPYRG4 Report.	Oct '94	Dec '94
8L1A6A44	A	5	Continue oversight of archival tag attach-ment experiment.	Oct '94	Jun '95
8L1A6A44	A	6	Design and implement a thresher shark simula-tion model.	Jul '95	Sep '95
8L1A6A44	A	7	Carry out rotational assignment with Highly Migratory Species Division.	Mar '95	Jun '95

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

iv: MARINE MAMMAL DIVISION
#: 500 MARINE MAMMAL ADMINISTRATION
nt Yr Task #: 8L1C4V50 MARINE MAMMAL ADMIN

Date: 03/21/95
Prior Yr Task #:
Task Leader: BROWNELL

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
ROWNELL JR, ROBERT L	15	00	80,272	100.0	80,272	/ /	/ /

TOTAL FTE FTP POSITIONS= 1.000
TOTAL FTP SALARIES= 80,272

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	80,272
[redacted] B. Employer Contribution (22%) = (A x .22)	=	17,659
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	1,000

MENTS:

Total Labor (sum of A thru F)	=	**98,931**
Total Other (from page 2)	=	**57,000**
Total Estimated Task Cost	=	**155,931**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 500 **Lab/Div:** SWC/MMD **Page:** 1

Title: MARINE MAMMAL ADMINISTRATION

Leader: BROWNELL

Budget:

Personnel: $99.0 K Other Objects: $57.0 K Total: $156.0 K

ASSOCIATION ITEMS SECTION

1. **Agencies:**

CodeAKC	Code AKR	Code FAO	Code HQ
CodeIATTC	Code ICES	Code NEC	Code NER
CodeNMFS	Code NOAA	Code NWC	Code NWR1
CodeSEC	Code SER	Code SWR	Code USFWS

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code: T1E	Code: T2A	Code: T2B	Code: T2C
Percent: 10	Percent: 50	Percent: 10	Percent: 10
Code: T2D	Code: T3C		
Percent: 10	Percent: 10		

3. **Legislation Supported by CYOP**

Code: MMPA	Code: ESA	Code:	Code:
Percent: 70	Percent: 30	Percent:	Percent:

4. **"Our Living Oceans" Units Associated with CYOP**

Code: 23	Code: 24	Code:	Code:
Percent: 90	Percent: 10	Percent:	Percent:

5. **Fishery Management Plans Associated with CYOP**

Code:	Code:	Code:	Code:
Percent:	Percent:	Percent:	Percent:

6. Facilities Where CYOPs Activities Take Place

Code: SWC1 Code:_____ Code:_____ Code:_____

Percent: 100 Percent:_____ Percent:_____ Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

This task involves the coordination of activities and dissemination of results of all Marine Mammal Division programs. It provides information on biological impacts of management practices by NMFS as mandated by the MMPA and the ESA and their subsequent revisions.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To coordinate Marine Mammal Division research activities.

b) To disseminate Marine Mammal Division research results to the public, Congress, industry, non-government organizations, other government agencies, international organizations, international resource managers, and NMFS Headquarters.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

By attending and conducting meetings and workshops regarding marine mammal populations and their ecological relationships in addition to providing reports on the results of research conducted by the Marine Mammal Division.

3. Products/Services

Products of this program are used by NMFS and other responsible organizations charged with drafting management measures for the U.S. and international fisheries.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

The information generated is used by NMFS to evaluate management options for the protection of California pinnipeds, and cetaceans, as well as ETP dolphin stocks, and other marine mammal stocks inhabiting waters of the U.S. Pacific Region for the management of U.S. fisheries. Up-to-date information on the condition of these marine mammal populations is a key requirement for the evaluation and selection of management options.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

1) Russian translation (3%)
2) Office (13%)

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

NOAA Plan
Reducing bycatch
Research on bycatch by coastal gillnets, high seas driftnet, and tuna purse seines
Assist status of protected species
Obtain information for status of stock reports for all marine mammals in the Pacific Region of U.S. waters
Reduce marine mammal-fishery interactions
Obtain estimates of mortality for observed fisheries
Implement recover/conservation plans
Participate on recovery teams and panels for protected species
Take a proactive approach/prevent listings
Monitor marine mammal populations to obtain accurate information which can be used to assess their status
Expand ecosystem monitoring
Obtain habitat information for marine mammals

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

SWC1/MMD 510,520,530,540,550

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

8L1C4V50

A Participate in scientific committee meetings of the IWC, intercessional meetings, and Marine Mammal Commission meetings. (1995) Annual

M Submit reports to IWC on Soviet gray whale catch data and data from past Soviet whaling activities. (April 1995)

A Continue international research/management efforts on vaquita, baiji, Chilean dolphins, endangered populations of large whales, etc. (1995) Annual

A Provide annual reports to the IWC, MMC, F/PR, ICES, on marine mammal research and results. (Jan-May 1995) Annual

A Review NMFS marine mammal scientific research permits (1995) Annual.

A Conduct field work on Okhotsk Sea whale stocks. (Aug 1995)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: MARINE MAMMAL DIVISION
OP#: 510 DOLPHIN STOCK ASSESSMENT
rent Yr Task #: 8L1C4V51 MM STOCK ASSESSMENT

Date: 03/21/95
Prior Yr Task #:
Task Leader: GERRODETTE

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
ERRODETTE, TIMOTHY	14	00	63,034	100.0	63,034	/ /	/ /
TOTAL FTE FTP POSITIONS= 1.000							
TOTAL FTP SALARIES= 63,034							
MPORARY EMPLOYEES:							
EAGY, SCOTT C	5	01	19,052	21.0	4,000	/ /	/ /
TOTAL FTE TEMP POSITIONS= 0.210							
TOTAL TEMP SALARIES= 4,000							

tal Salaries of FTP, PTP, and TERM EMPLOYEES	=	63,034
[redacted] B. Employer Contribution (22%) = (A x .22)	=	13,867
tal Salaries of TEMPORARY EMPLOYEES	=	4,000
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	732
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
emium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F)	=	**81,634**
Total Other (from page 2)	=	**9,500**
Total Estimated Task Cost	=	**91,134**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 510 **Lab/Div:** SWC/MMD **Page:** 1

Title: DOLPHIN STOCK ASSESSMENT

Leader: GERRODETTE

Budget:

Personnel: $ 81.6K Other Objects: $9.5 K Total: $ ~~90.8~~ 91.1 K

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code HQ Code IATTC Code NMFS Code NOAA SWR

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code: T2A Code: Code: Code:

Percent: 100 Percent: Percent: Percent:

3. **Legislation Supported by CYOP**

Code: MMPA Code: ESA Code: Code:
Percent: 90 Percent: 10 Percent: Percent:

4. **"Our Living Oceans" Units Associated with CYOP**

Code: 23 Code: 24 Code: Code:

Percent: 95 Percent: 5 Percent: Percent:

5. **Fishery Management Plans Associated with CYOP**

Code: Code: Code: Code:

Percent: Percent: Percent: Percent:

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC1 Code: Code: Code:

Percent: 100 Percent: Percent: Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)
This task involves research on the abundance and distribution of dolphins associated with the eastern tropical Pacific purse seine tuna fishery. It provides information needed to assess NMFS' management practices in this fishery, as mandated by the MMPA.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To estimate the ratio of current to historical population size for all dolphin stocks affected by the ETP tuna purse seine fishery.

b) To produce estimates of abundance for all cetacean species detected on the 1992 and 1993 surveys, including the Gulf of California.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)
The Bayesian model developed by Paul Wade in his thesis will be applied to combine mortality data with absolute and relative abundance estimates to estimate the current status of dolphin populations. Line-transect analyses will be used to make estimates of abundance. Field work is complete; project is now in the analyses phase.

3. Products/Services
A paper on the status of ETP dolphin populations, a paper on the abundance and distribution of cetaceans in the Gulf of California, and papers on current abundance of blue, and humpback whales as well as common dolphins off the coast of California will be prepare for peer reviewed journals.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)
The results produced by the task are used by NMFS to evaluate management options for the protection of ETP dolphin stocks as mandated by the MMPA. Information is also used by the commercial tuna fishing industry and environmental groups.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)
Determining trends in ETP dolphin population sizes was mandated in the 1984 amendments to the MMPA. The 1994 amendments to the MMPA, while not addressing ETP fishing directly, proposed a management regime which grew out of the ETP tuna-dolphin problem.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)
SWC1/MMD 500,520, 530, 540, 550

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

8L1A4V51

M Paper on status of ETP dolphin populations (Nov 1994) (Mar 1995)

M Paper on Gulf of California cetacean abundance (April 1995) (Jan 1996)

M Papers on common dolphins, blue and humpback whales (Dec 1994) (Sept 1995)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: MARINE MAMMAL DIVISION
#: 520 POPULATION IDENTIFICATION
nt Yr Task #: 8L1A5V52 POPULATION IDENTITY

Date: 03/21/95
Prior Yr Task #:
Task Leader: DIZON

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
HIVERS, SUSAN J	12	02	43,257	100.0	44,187	02/06/95	/ /
IZON, ANDREW E	14	00	72,444	100.0	72,444	/ /	/ /
OBERTSON, KELLY M	7	02	24,385	100.0	24,909	02/06/95	/ /
	TOTAL FTE FTP POSITIONS= 3.000		TOTAL FTP SALARIES= 141,540				
RARY EMPLOYEES:							
E DUC, RICHARD G	7	01	23,598	23.0	5,427	/ /	10/06/95
ESTLAKE, ROBIN L	7	05	26,744	23.0	6,151	/ /	06/16/95
	TOTAL FTE TEMP POSITIONS= 0.460		TOTAL TEMP SALARIES= 11,578				

tal Salaries of FTP, PTP, and TERM EMPLOYEES	=	141,540
[redacted] B. Employer Contribution (22%) = (A x .22)	=	31,138
tal Salaries of TEMPORARY EMPLOYEES	=	11,578
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	2,118
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F)	=	**186,376**
Total Other (from page 2)	=	**2,400**
Total Estimated Task Cost	=	**188,776**

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

iv: MARINE MAMMAL DIVISION
#: 520 POPULATION IDENTIFICATION
nt Yr Task #: 8L1A5V51 PHOTOGRAMMETRY

Date: 03/21/95
Prior Yr Task #:
Task Leader: PERRYMAN

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
ILPATRICK, JAMES W	9	05	32,715	100.0	32,715	01/23/96	/ /
YNN, MORGAN S	9	02	29,829	100.0	30,070	07/10/95	/ /
ERRYMAN, WAYNE L	13	01	51,900	100.0	51,900	01/09/96	/ /

TOTAL FTE FTP POSITIONS= 3.000
TOTAL FTP SALARIES= 114,685

tal Salaries of FTP, PTP, and TERM EMPLOYEES	=	114,685
[redacted] B. Employer Contribution (22%) = (A x .22)	=	25,230
tal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
emium Pay (Overtime, hazardous duty, night differential, etc.)	=	1,000

ENTS:

Total Labor (sum of A thru F) = 140,915
Total Other (from page 2) = 26,000
Total Estimated Task Cost = 166,915

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 520 **Lab/Div:** SWC/MMD **Page:** 1

Title: POPULATION IDENTIFICATION

Leader: DIZON

Budget:

Personnel: $327.1K Other Objects: ~~$28.0~~ 28.5 K Total: ~~$355.1~~ 355.6 K

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code HQ Code IATTC Code NMFS Code NOAA Code SWR

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code: T2A Code: Code: Code:

Percent: 100 Percent: Percent: Percent:

3. **Legislation Supported by CYOP**

Code: MMPA Code: ESA Code: Code:

Percent: 80 Percent: 20 Percent: Percent:

4. **"Our Living Oceans" Units Associated with CYOP**

Code: 23 Code: Code: Code:

Percent: 100 Percent: Percent: Percent:

5. **Fishery Management Plans Associated with CYOP**

Code: Code: Code: Code:

Percent: Percent: Percent: Percent:

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC1 Code: Code: Code:

Percent: 100 Percent: Percent: Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)
This program is designed to obtain information on genetics, distribution, morphology and other biological measures to determine the stock structure of dolphins in the ETP, cetaceans worldwide and other marine mammals. This program is also responsible for photographing schools of dolphin and other marine mammals during research vessel surveys and census of pinnipeds. These photogrammetric counts are used to estimate school sizes and calibrate research vessel and ground census observers. Photogrammetric techniques are also used to collect data for morphometric and demographic measurements of stock discreetness. Additionally, this program is responsible for the curation and analysis of biological specimens collected aboard U.S. fishing vessels and for managing the Southern California Stranding Network. And finally, this task takes the lead in monitoring the northbound migration of California gray whales.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To utilize information from genetics, distribution, morphology, and other biological measures to determine stock structure.

b) To develop photogrammetric methods which can be used to determine stock discreetness.

c) To provide support to the Coastal Marine Mammal Program by obtaining aerial photographs of cetaceans and pinnipeds for stock assessment, abundance estimation and calibration.

d) To conduct annual census of northbound migrating gray whales to determine the status of this recovering species.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Specifically, this program uses a variety of techniques for the analyses of marine mammal tissues in order to determine stock structure of populations that interact with U.S. fisheries. It also uses state-of-the-art aerial photogrammetric techniques for stock structure studies, school size estimates, pinniped population estimates, and observer calibration. As in years past, this program is responsible for processing, curating and archiving dolphin biological specimens. Estimates of reproductive rates and other vital rates; of indexes that reflect fishing pressure, density or condition; and of stock structure are based primarily on specimens and data collected by NMFS and IATTC technicians aboard commercial fishing and research vessels.

3. Products/Services
The products are used, in connection with the information on population size and density, to meet the mandated requirements of the

MMPA concerning the gathering of information for determination of "significantly impacted" and "impacted by whom or what" as well as providing information on trends in relative abundance of stocks that interact with fisheries to the Secretary.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)
Products are used by other tasks in the Division as well as other groups within NMFS and in the industry charge or involved with management measures for exploited marine mammal populations.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

Private Air - Photogrammetric survey for blue whales (WHAPS) (3%)

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

NOAA Plan
Assist status of protected species - determining whether populations are significantly impacted by fisheries and other human activities

MMPA and ESA

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)
SWC1/MMD 500,510, 530, 540

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

8L1A5V52
A Process and curate marine mammal biological specimens. (1995) Annual
A Investigate the stock structure of fishery impacted cetaceans and the molecular techniques which provide stock structure information. (1995) Annual
8L1A5V51
A Investigate migration patterns for the California gray whale. (April-June 1995) Annual
A Provide support for Coastal Marine Mammal surveys and census. (1995) Annual
A Investigate Northeast Pacific blue whale population biology using photogrammetric techniques. (1995)
A Assess annual Steller sea lion population (including pup production) at Año Nuevo Island. (1995) Annual
A Participate in National Marine Mammal Lab. investigation of southbound migration of California of California gray whales. (Jan-Mar 1995) Annual
A Investigate geographic stock structure in eastern Pacific dolphin populations.

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: MARINE MAMMAL DIVISION
Proj #: 530 DOLPHIN ECOLOGY PROGRAM
Current Yr Task #: 8L1A6A53 CETACEAN ECOLOGY

Date: 03/21/95
Prior Yr Task #:
Task Leader: REILLY

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
FULL TIME PERMANENT & TERM EMPLOYEES:							
KIEDLER, PAUL C	13	00	51,438	100.0	51,438	/ /	/ /
HOLLAND, ROBERT C	11	02	36,092	100.0	36,577	05/01/95	/ /
WHILBRICK, VALERIE A	9	03	30,791	100.0	31,432	02/20/95	/ /
WITMAN, ROBERT L	9	04	31,753	100.0	31,753	02/20/96	/ /
REILLY, STEPHEN B	14	00	67,650	100.0	67,650	/ /	/ /

TOTAL FTE FTP POSITIONS= 5.000
TOTAL FTP SALARIES= 218,850

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	218,850
[redacted] B. Employer Contribution (22%) = (A x .22)	=	48,147
Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	24,000

COMMENTS:

Total Labor (sum of A thru F)	=	**290,997**
Total Other (from page 2)	=	**114,500**
Total Estimated Task Cost	=	**405,497**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 530 **Lab/Div**: SWC/MMD **Page**: 1

Title:DOLPHIN ECOLOGY PROGRAM

Leader:REILLY

Budget:

Personnel: $ 291.0 Other Objects: $114.5K Total: $405.5 K

ASSOCIATION ITEMS SECTION

1. **Agencies**: Code HQ Code IATTC Code NMFS Code NOAA

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code: T2A	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

3. **Legislation Supported by CYOP**

Code: ESA	Code: MMPA	Code:	Code:
Percent: 30	Percent: 70	Percent:	Percent:

4. **"Our Living Oceans" Units Associated with CYOP**

Code: 23	Code: 24	Code:	Code:
Percent: 90	Percent: 10	Percent:	Percent:

5. **Fishery Management Plans Associated with CYOP**

Code:	Code:	Code:	Code:
Percent:	Percent:	Percent:	Percent:

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC1	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

This program addresses the scientific and management aspects of **physical and biological habitat use by marine mammals and endangered species**.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To (in the near-term) quantify the contribution of habitat use patterns and variability to the observed variance of our sighting surveys, and thus do a better job of estimating abundance, detecting trends, and designing more efficient surveys.

b) To(in the long-term) develop a model-based system with realistic data requirements that includes habitat and multispecies components, and,

c) To apply this system to the management of marine mammals and protected species

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

To obtain habitat information we have expanded the scope of data collection during marine mammal sighting surveys to include observations on oceanography and environmental biology. Where possible we supplement these data with information from existing NOAA and other data bases. Our analytic approach to date has been primarily empirical, using statistical techniques to quantify multivariate patterns.

3. Products/Services

Our results are used in combination with those from the other SWFSC/MMD programs to determine the abundance (and when possible) trends in marine mammal and endangered species populations within the geographic purvue of the Center.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Our clients include the Southwest Regional office of NMFS, the Office of Protected Resources, and the US Marine Mammal Commission. All require informed advice on status and trends of populations to make management decisions.

)ur 'suppliers' include the other programs of the Division for abundance estimates and related data, the NOS for ship time, NESDIS (on occasion) for information from oceanographic data bases.

5. **Major Contracts** (List major contracts and provide approximate percentage of total contract costs to total budget)

Three Marine Mammal Observers to supply data collected during WHAPS survey August 1994 (4%total).

Marine Mammal Satellite Tagging data MMPA Permit Required (1%).

6. **Justification:** (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

The MMPA and ESA both mandate an "ecosystem approach" be taken when managing marine mammals and protected species, but it is not yet clear how this can or should be done. As stated above (Objectives) this program is designed specifically to fill that gap, first by quantifying habitat use patterns, and later multispecies patterns, and by providing quantitative advice from these efforts. Without this program (or another very much like it) we would be in the disadvantageous position of attempting to monitor and manage marine mammal and protected species populations in nearly complete ignorance of the effects of the environment on our information and decisions.

7. **Linkages** (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

Other MMD programs in field studies (list latest names for Jay's and Tim's programs); Other Divisions of the Center in the FY95 cruise; NOS for ship time.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

Plan inter-Division cruise to investigate feeding habitats of large, endangered whale species (eg blue and fin whales) off California, Summer 1995.(9/94 - cruise dates)

Lead the above cruise to successful completion.(dates?)

Complete manuscript on California Current cetacean habitat use.(8/95)

Complete manuscript on Costa Rica Dome.(6/95)

Chair Scientific Committee of the International Whaling Commission
- convene and chair annual meeting, May 1995, Dublin
- convene intersessional meeting to develop research plan for endangered whales in the Southern Ocean.

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

iv: MARINE MAMMAL DIVISION
#: 540 COASTAL MARINE MAMMALS
nt Yr Task #: 8L1A5V54 COASTAL MARINE MAMMALS

Date: 03/21/95
Prior Yr Task #:
Task Leader: BARLOW

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
ARLOW, JAY P	14	00	66,568	100.0	66,568	/ /	/ /
ARRETTA, JAMES V	9	01	28,867	66.0	19,581	12/26/94	12/25/95
ORNEY, KARIN A	11	03	37,257	100.0	37,742	05/15/95	/ /
OWRY, MARK S	11	04	38,421	100.0	38,421	10/17/95	/ /

TOTAL FTE FTP POSITIONS= 3.660
TOTAL FTP SALARIES= 162,312

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	162,312
[redacted] B. Employer Contribution (22%) = (A x .22)	=	35,708
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	4,500

MENTS:

Total Labor (sum of A thru F) =	**202,521**
Total Other (from page 2) =	**52,000**
Total Estimated Task Cost =	**254,521**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 540 **Lab/Div:** SWC/MMD **Page:** 1

Title: COASTAL MARINE MAMMALS

Leader: BARLOW

Budget:

Personnel: ~~$205.1~~ 202.5 K Other Objects: $52.0 K Total: ~~$257.1~~ 254.5 K

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code HQ Code NMFS Code SWR Code

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code: T2A Code: Code: Code:

Percent: 100 Percent: Percent: Percent:

3. **Legislation Supported by CYOP**

Code: MMPA Code: ESA Code: Code:

Percent: 70 Percent: 30 Percent: Percent:

4. **"Our Living Oceans" Units Associated with CYOP**

Code: 23 Code: Code: Code:

Percent: 100 Percent: Percent: Percent:

5. **Fishery Management Plans Associated with CYOP**

Code: Code: Code: Code:

Percent: Percent: Percent: Percent:

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC1 Code: Code: Code:

Percent: Percent: Percent: Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)
This task investigates changes in coastal marine mammal populations associated with human activities (e.g., research, commercial fisheries, etc). This task provides information so that the status of stocks of certain species can be determined, allowing NMFS to fulfill its requirements under the MMPA

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To monitor marine mammal populations.
b) To monitor the effect of fishery and other human caused mortality on marine mammal populations.
c) To develop methods of determining the status of marine mammal stocks.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

During 1995, ship surveys will be used to develop methods to acoustically detect deep diving whales to improve abundance estimates. Aerial photographic surveys will be used to monitor the abundance of California sea lions and elephant seals. Aerial surveys will be used to continue monitoring the central and northern California harbor porpoise populations. Photo-identification studies will be continued for blue, humpback, and killer whales. Estimates of marine mammal mortality will be made based on NMFS observer program data and CDFG fishing effort estimates for California gillnet fisheries.

3. Products/Services

The information produced by the program will primarily be used by NMFS management to 1) develop actions to protect marine mammals in California from unnecessary or excessive fishery mortality, 2) determine allowable takes for display, research and fisheries, and 3) evaluate the effects of incidental take on marine mammals. This task is responsible for compiling stock assessment reports for all marine mammal stocks inhabiting the waters of the Pacific Region.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Products provided by this program are used by NMFS offices which are responsible for controlling the take of marine mammals.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)
1) Air time - Elephant seal census (7%)
2) Air time - California sea lion census (4%)

5. **Justification:** (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Strategic Plan
2A - Assist status of protected species
Legislation
MMPA Reauthorized 1993 - section 117 and 118
ESA - Recovery Plans

6. **Linkages** (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)
SWC1/MMD 500, 520, 530, 550

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

3L1A5V54

A Participate in vaquita surveys and assist with assessment of the northern Gulf of California in support of international agreement with Mexico. (July 1995) Annual
M Submit results of the 1986-1993 harbor porpoise surveys to peer reviewed journal. (May 1995)
A Elephant seal aerial photographic census and ground counts (Jan-Feb and April-May) Annual
A California sea lion aerial photographic census and ground counts. (July-Oct) Annual
M Submit results of California sea lion aerial photographic counts for 1987-1994. (February 1995)
M Submit results of elephant seal aerial photographic counts for 1988-1994. (March 1995)
A Continue mark-recapture estimation for blue and humpback whales off California from PODS data and other photo-id work.
A Participate in cooperative pinniped assessment research with Mexico in Mexican waters. (Feb, May, Aug, Nov 1995)
M Report on status of California Marine Mammals - Stock Assessment Reports. (Jan 1, 1995)
A Assist Headquarters with the implementation of the reauthorized MMPA. (1995-1996)
A Assist Scientific Review Groups established under MMPA. (1995-1996)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

)iv: MARINE MAMMAL DIVISION
#: 550 DOLPHIN SAFE RESEARCH
ent Yr Task #: 8L1ADTPA DOLPHIN-SAFE RESEARCH

Date: 03/21/95
Prior Yr Task #:
Task Leader: EDWARDS

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
ARMSTRONG, WESLEY A	7	03	25,171	33.0	8,306	/ /	12/31/94
EDWARDS, ELIZABETH F	13	00	56,416	100.0	61,000	/ /	/ /
MYRICK JR, ALBERT C	13	00	58,075	100.0	58,075	/ /	/ /
OLIVER, CHARLES W	12	08	51,627	100.0	51,627	10/04/95	/ /
BISSON, JOYCE E	9	01	28,867	100.0	28,867	06/12/95	/ /
TOTAL FTE FTP POSITIONS= 4.330							
TOTAL FTP SALARIES= 207,875							
)RARY EMPLOYEES:							
PERKINS, PETER C	9	01	28,867	66.0	19,052	/ /	/ /
TOTAL FTE TEMP POSITIONS= 0.660							
TOTAL TEMP SALARIES= 19,052							

)tal Salaries of FTP, PTP, and TERM EMPLOYEES	=	207,875
[redacted] B. Employer Contribution (22%) = (A x .22)	=	45,732
)tal Salaries of TEMPORARY EMPLOYEES	=	19,052
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	3,486
)st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
:emium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

)MENTS:

Total Labor (sum of A thru F)	=	**276,146**
Total Other (from page 2)	=	**207,600**
Total Estimated Task Cost	=	**483,746**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 550 **Lab/Div:** SWC/MMD **Page:** 1

Title: DOLPHIN SAFE RESEARCH

Leader: EDWARDS

Budget:

Personnel: ~~$267.4~~ 276.1 K Other Objects: ~~$208~~ 207.6 K Total: ~~$475.0~~ 483.7 K

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code HQ Code IATTC Code SWR Code NMFS

NOAA

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code: T2B Code: Code: Code:

Percent: 100 Percent: Percent: Percent:

3. **Legislation Supported by CYOP**

Code: ESA Code: MMPA Code: Code:

Percent: 20 Percent: 80 Percent: Percent:

4. **"Our Living Oceans" Units Associated with CYOP**

Code: 23 Code: Code: Code:

Percent: 100 Percent: Percent: Percent:

5. **Fishery Management Plans Associated with CYOP**

Code: Code: Code: Code:

Percent: Percent: Percent: Percent:

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC1 Code: Code: Code:

Percent: 100 Percent: Percent: Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

This task is responsible for investigating and developing methods for detecting and capturing large yellowfin tuna in the ETP without encircling dolphins. The research supported by this task was reviewed by a panel of experts and has been published in the Federal Register with requests for comments during both FY92 and FY93.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To develop alternative fishing methods for catch large yellowfin tuna without encircling dolphin.

b) To investigate methods for locating large yellowfin tuna not associated with dolphin.

c) To investigate patterns of dolphin mortality from the U.S. and Non-U.S. fleets.

d) To hold a workshop to discuss methods of separating tuna and dolphin prior to encirclement.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

During FY95, projects initiated during previous years will be continued, and new projects will be initiated. Continuing projects include contracts to IATTC to study tuna-dolphin food habits and oceanography; facilitating field trials of advanced detection technologies; assisting with skipper requests for FAD equipment; maintenance of the Dolphin-Safe Research Proposals Data Base; and funding of research priorities identified during last years research planning workshop participants. New projects will include modeling of acoustical, optical, and radar signal propagation and tuna target signatures in the ETP environment, and a workshop to evaluate the potential for separating tunas and dolphins prior to setting.

3. Products/Services
Annual reports, workshop report, and contract reports.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Products are provided to the SWR, F/PR, State Department, tuna industry, environmental community, and IATTC.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

a) Acoustic modeling to detect schools of large yellowfin tuna in the ETP by the tuna purse seine fishery. (13%)

b) Optical modeling for airborne systems to detect schools of large yellowfin tuna in the ETP by the tuna purse seine fishery. (5%)

c) Radar modeling to detect schools of large yellowfin tuna in the ETP by the tuna purse seine fishery. (5%)

d) Methods to estimate frequency of capture as a function of school size in spotted dolphins from the ETP yellowfin tuna purse seine fishery.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

The International Dolphin Conservation Act of 1992 amended the General Permit authorized to the American Tunaboat Association which regulates the take of dolphin during fishing activities under the Marine Mammal Protection Act. It also placed new restrictions on the sale of tuna in the U.S. As of 1 June 1994, it is unlawful to sell, purchase, or offer for sale, transport, or ship any tuna or tuna product that is not dolphin-safe (tuna caught without encircling dolphin). The National Oceanic and Atmospheric Administration Authorization Act authorized funding to develop dolphin safe methods which is consistent with the NOAA Plan to reduce marine mammal/fishery interactions.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

SWC1/MMD CYOP 500, 510, 520, 530

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

8L1ADTPA

1) E Prepare annual report to Congress as required by the International Dolphin Conservation Act of 1992 (Jan 1995).

2) E Acoustic detection methods and modeling project contract (Jan-Sept 1995).

3) E Optical detection methods and modeling project contract (Jan-Sept 1995).

4) E Radar detection methods and modeling project contract (Jan-Sept 1995).

5) E Tuna-dolphin separation workshop (July 1995).

6) A Coordinate contracted studies with IATTC on oceanography and food habits (Oct-Sept 1995).

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

iv: ANTARCTIC ECOSYSTEM RESEARCH GROUP
#: 601 ANTARCTIC ECOSYSTEM RESEARCH
at Yr Task #: 8L1A6H60 ECOSYSTEM MONITORING

Date: 03/21/95
Prior Yr Task #:
Task Leader: HOLT

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
OLT, RENNIE S	15	00	78,419	100.0	78,419	/ /	/ /
OSENBERG, JANE E	9	02	29,829	100.0	29,829	09/05/94	/ /

TOTAL FTE FTP POSITIONS= 2.000
TOTAL FTP SALARIES= 108,248

tal Salaries of FTP, PTP, and TERM EMPLOYEES	=	108,248
[redacted] B. Employer Contribution (22%) = (A x .22)	=	23,814
tal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
emium Pay (Overtime, hazardous duty, night differential, etc.)	=	5,000

ENTS:

Total Labor (sum of A thru F) = 137,062
Total Other (from page 2) = 447,000
Total Estimated Task Cost = 584,062

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

iv: ANTARCTIC ECOSYSTEM RESEARCH GROUP
#: 601 ANTARCTIC ECOSYSTEM RESEARCH
nt Yr Task #: 8L1A6H61 ANTARCTIC KRILL STK ASSESS

Date: 03/21/95
Prior Yr Task #:
Task Leader: HEWITT

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
EMER, DAVID A	12	01	41,862	100.0	41,862	/ /	/ /
EWITT, ROGER P	14	00	66,669	100.0	66,669	/ /	/ /

TOTAL FTE FTP POSITIONS= 2.000
TOTAL FTP SALARIES= 108,531

al Salaries of FTP, PTP, and TERM EMPLOYEES	=	108,531
[redacted] B. Employer Contribution (22%) = (A x .22)	=	23,876
al Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
t of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
mium Pay (Overtime, hazardous duty, night differential, etc.)	=	5,000

NTS:

Total Labor (sum of A thru F)	=	**137,407**
Total Other (from page 2)	=	**24,800**
Total Estimated Task Cost	=	**162,207**

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: ANTARCTIC ECOSYSTEM RESEARCH GROUP
#: 601 ANTARCTIC ECOSYSTEM RESEARCH
nt Yr Task #: 8L1A6H62 FISH/KRILL POP DYNAMICS

Date: 03/21/95
Prior Yr Task #:
Task Leader: HOLT

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
EXTON, STEPHANIE	11	05	39,586	100.0	39,586	02/20/96	/ /
TOTAL FTE FTP POSITIONS= 1.000							
TOTAL FTP SALARIES= 39,586							
RARY EMPLOYEES:							
ATTERS, GEORGE M	9	01	28,867	100.0	28,867	/ /	10/29/95
TOTAL FTE TEMP POSITIONS= 1.000							
TOTAL TEMP SALARIES= 28,867							

al Salaries of FTP, PTP, and TERM EMPLOYEES	=	39,586
[redacted] B. Employer Contribution (22%) = (A x .22)	=	8,708
al Salaries of TEMPORARY EMPLOYEES	=	28,867
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	5,282
of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
nium Pay (Overtime, hazardous duty, night differential, etc.)	=	2,000
Total Labor (sum of A thru F)	=	**84,444**
Total Other (from page 2)	=	**0**
Total Estimated Task Cost	=	**84,444**

NTS:

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

iv: ANTARCTIC ECOSYSTEM RESEARCH GROUP
#: 601 ANTARCTIC ECOSYSTEM RESEARCH
nt Yr Task #: 8L1A6H63 FIELD OPERATIONS

Date: 03/21/95
Prior Yr Task #:
Task Leader: HEWITT

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
RARY EMPLOYEES:							
REENE, DAVID E	7	01	23,598	100.0	23,598	/ /	09/06/95

TOTAL FTE TEMP POSITIONS= 1.000
TOTAL TEMP SALARIES= 23,598

al Salaries of FTP, PTP, and TERM EMPLOYEES	=	0
[redacted] B. Employer Contribution (22%) = (A x .22)	=	0
al Salaries of TEMPORARY EMPLOYEES	=	23,598
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	4,318
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
emium Pay (Overtime, hazardous duty, night differential, etc.)	=	2,000

ENTS:

Total Labor (sum of A thru F) = 29,916
Total Other (from page 2) = 276,500
Total Estimated Task Cost = 306,416

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC -601 **Lab/Div:**AERG **Page:** 1

Title: Antarctic Ecosystem Research

Leader:R. Holt

Budget:

Personnel: $388.8K Other Objects: $748.3K Total: $1137.1 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWC1 Code AKC Code DoS Code NSF

2. NOAA Strategic Plan Elements Supported by CYOP

Code:	T1A	Code:	T2B	Code:	T3B	Code:	T3C
Percent:	25	Percent:	25	Percent:	25	Percent:	25

3. Legislation Supported by CYOP

Code:	AMLR	Code:	MMPA	Code:	ESA	Code:	
Percent:	75	Percent:	20	Percent:	5	Percent:	

4. "Our Living Oceans" Units Associated with CYOP

Code:	None	Code:		Code:		Code:	
Percent:		Percent:		Percent:		Percent:	

5. Fishery Management Plans Associated with CYOP

Code:	None	Code:		Code:		Code:	
Percent:		Percent:		Percent:		Percent:	

6. Facilities Where CYOPs Activities Take Place

Code:	SWC1	Code:	AKC	Code:		Code:	
Percent:	75	Percent:	25	Percent:		Percent:	

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

The U.S. Antarctic Marine Living Resources (AMLR) program provides information needed to formulate U.S. policy on conservation and international management of resources living in the oceans surrounding Antarctica. The program was established by Public Law 98-623 to provide advice to the U.S. delegation to the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR), part of the Antarctic Treaty System. The AMLR program is managed by the Antarctic Ecosystem Research Group located at the Southwest Fisheries Science Center.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

The AMLR program will be divided into four tasks: (1) Ecosystem Monitoring will coordinate and review field research on krill predators, conduct AMLR Interagency Review Panel and pre-CCAMLR meetings, coordinate scientific presentations and participation at CCAMLR meetings, and update the Program Development Plan. (2) Krill Stock Assessment will conduct acoustic surveys of krill, prepare working papers and manuscripts, and participate in CCAMLR Krill Working Group Meeting. (3) Population Dynamics will review data and papers on the status of fish stocks submitted to CCAMLR, collect data and prepare analysis on Antarctic crab populations, and participate in CCAMLR Stock Assessment meeting. (4) Field Operations will design, coordinate and conduct activities undertaken during the field season in accordance with the long-range Antarctic research strategy.

3. Products/Services

Reports and technical papers are prepared to meet U.S. obligations to the Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR). Scientific papers are prepared for publication. AERG staff and invited consultants will participate in CCAMLR working groups and other international meetings to address conservation issues and assess relevant scientific information.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Information provided by the tasks will be used by the State Department to formulate U.S. positions on Antarctic resource conservation, by the U.S. AMLR program to adjust its long-range research strategy, by the CCAMLR Scientific Committee, and by other governments and researchers working in the Antarctic.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

Phytoplankton studies - $65k
Physical oceanography studies - $65k
Krill demographic studies - $55k
Krill predator monitoring - $390k
Penguin studies at Palmer Station - $40k

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

The U.S. AMLR program is a directed research program designed to complement the U.S. Antarctic Program (USAP) of basic research managed by the National Science Foundation (NSF), with the goal of maximizing the productivity of the overall U.S. science effort in Antarctica through close coordination in planning and cooperative work between the two programs. The Antarctic Marine Living Resources Convention Act, P.L. 98-623, Title III, was signed into law in 1984, implementing the Convention. Congress found that both directed and basic research programs concerning the marine living resources of Antarctica are essential to achieving the U.S. goal of effective implementation of the Convention. Section 312 (B) of the act states that:

"The Secretary of Commerce, in consultation with the Director of the NSF, the Secretary of State and the heads of other appropriate Federal agencies, shall design and conduct a program of directed scientific research coordinated with the U.S. Antarctic Program."

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

National Marine Mammal Lab (AKC), Department of State, National Science Foundation, Marine Mammal Commission, various non-government organizations interested in Antarctic conservation issues, academic investigators at several universities receiving funding from U.S. AMLR program.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)					
	8L1A6H60	E 1	Conduct pre-CCAMLR meetings.		6/95
	8L1A6H60	A 2	Coordinate scientific presentations and participation at CCAMLR Working Groups, Scientific Committee, and Commission meetings.	10/94	9/95

8L1A6H60	A	3	Formulate US advice regarding long-term direction CCAMLR should pursue to manage Antarctic crab, fish, and krill fisheries.	10/94	9/95
8L1A6H60	A	4	Coordinate predator/prey modeling studies, penguin research at Palmer Station, and predator monitoring studies at Seal Island.	10/94	9/95
8L1A6H60	E	5	Participate in US GLOBEC program planning.	Unscheduled	
8L1A6H60	A	6	Manage AERG program budget, personnel, and research activities	10/94	9/95
8L1A6H60	M	7	Review Program priorities, formulate long-term objectives, and complete Program Development Plan.		6/95
8L1A6H61	A	8	Design, coordinate and conduct 1994/95 field work; analyze acoustic data.	10/94	3/95
8L1A6H61	M	9	Write summaries of field research activities and results for AMLR Field Season Report and U.S. Antarctic Journal.		5/95
8L1A6H61	A	10	Investigate linkages between krill availability and predator performance; investigate geostatistical techniques for acoustic data.	10/94	9/95
8L1A6H61	E	11	Present four papers at ICES Symposium on Fisheries and Plankton Acoustics.		6/95
8L1A6H61	E	12	Prepare working papers for CCAMLR meetings and participate in CCAMLR krill management meetings.		7/95
8L1A6H61	M	13	Publish 4 papers on the errors and biases associated with acoustic estimates of krill biomass and distribution patterns.		9/95
8L1A6H61	A	14	Enhance capabilities of SWFSC acoustic system; add additional frequency and target tracking.	10/94	9/95
8L1A6H61	A	15	Conduct collaborative field work on baleen whale foraging in Bay of La Paz.	3/95	4/95
8L1A6H61	A	16	Conduct collaborative field work on blue and fin whale foraging near the Channel Islands.	8/95	9/95

8L1A6H61	A	17	Conduct collaborative field work on the distribution of whales and their prey in the Monterey Bay Marine Sanctuary.	6/95	6/95
8L1A6H61	A	18	Conduct collaborative field work on juvenile pollock in the Bering Sea.		9/95
8L1A6H61	A	19	Investigate use of passive acoustics to study whale vocalizations.		
8L1A6H61	A	20	Assist NEFSC in setting up and operating an active acoustic system.	4/95	5/95
8L1A6H61	A	21	Maintain in-house zooplankton sampling capability including procurement of equipment & supplies, staffing, at-sea sampling, and specimen archiving.	10/94	9/95
8L1A6H62	A	22	Model Antarctic crab population dynamics.	10/94	9/95
8L1A6H62	A	23	Review papers on status of fish stocks submitted to CCAMLR.	6/95	9/95
8L1A6H62	A	24	Formulate advice concerning US guidance to CCAMLR for management of Antarctic crab and fish stocks.	10/94	9/95
8L1A6H62	M	25	Attend and participate in CCAMLR Scientific Committee and Commission meetings and Working Group on Stock Assessment.		10/94
8L1A6H62	A	26	Investigate use of satellite imagery to describe ice-edge dynamics and climatology.	10/94	9/95
8L1A6H63	M	27	Evaluate research proposals and negotiate contracts and/or cooperative agreements.		6/95
8L1A6H63	A	28	Monitor and coordinate coop. agree. for studies on physical oceanography, primary production, and krill demographics.	10/94	9/95
8L1A6H63	M	29	Prepare and distribute draft and final cruise plans.		12/94
8L1A6H63	A	30	Manage cruise logistics and convene pre-cruise and post-cruise meetings.	10/94	5/95
8L1A6H63	M	31	Assemble and edit cruise report.		5/95

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY
#: 700 DIRECTOR'S OFFICE AND ADMINISTRATION - HONOLULU
ent Yr Task #: 9WGN4070 GENERAL SUPPORT DIR - HL

Date: 04/19/95
Prior Yr Task #:
Task Leader: LAURS

	Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
	TIME PERMANENT & TERM EMPLOYEES:							
1	HIGA, MARTHA Y	6	04	22,486	100.0	22,543	09/19/95	/ /
2	LAURS, R M	15	06	77,709	100.0	77,709	02/20/96	/ /

TOTAL FTE FTP POSITIONS= 2.000
TOTAL FTP SALARIES= 100,252

NOTE: PERSONNEL COSTS FOR #700B ARE $45.0K FOR O.T.

otal Salaries of FTP, PTP, and TERM EMPLOYEES		=	100,252
[redacted]	B. Employer Contribution (22%) = (A x .22)	=	22,055
otal Salaries of TEMPORARY EMPLOYEES		=	0
[redacted]	D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)		=	22,556
emium Pay (Overtime, hazardous duty, night differential, etc.)		=	0

MENTS:

Total Labor (sum of A thru F) = 144,864
Total Other (from page 2) = 30,000
Total Estimated Task Cost = 174,864

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY
#: 700 DIRECTOR'S OFFICE AND ADMINISTRATION - HONOLULU
nt Yr Task #: 9WGN4071 GENERAL SUPPORT - ADMIN

Date: 04/19/95
Prior Yr Task #:
Task Leader: YEE

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
ONG, BONNIE Y	7	06	26,502	100.0	27,196	11/15/94	/ /
AMMONDS, LEWIS H	7	03	15	58.3	19,233	/ /	04/30/95
UROMOTO, JANINE S	6	03	21,805	100.0	21,975	07/24/95	/ /
ONG, GLORIA J	5	03	19,562	100.0	20,020	01/09/95	/ /
EE, KARENA S	11	07	40,394	100.0	40,394	08/22/95	/ /

TOTAL FTE FTP POSITIONS= 4.583
TOTAL FTP SALARIES= 128,818

tal Salaries of FTP, PTP, and TERM EMPLOYEES	=	128,818
[redacted] B. Employer Contribution (22%) = (A x .22)	=	28,339
tal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	28,984
emium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

ENTS:

Total Labor (sum of A thru F) = 186,142
Total Other (from page 2) = 182,000
Total Estimated Task Cost = 368,142

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 700A **Lab/Div:** Honolulu **Page:** 1

Title: Director's Office and Administration

Leader: R. Michael Laurs

Budget:

Personnel: $331.0K **Other Objects:** $329.9K **Total:** $660.9K

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWC1 Code SWR Code HQ Code WPFMC

2. NOAA Strategic Plan Elements Supported by CYOP

Code:	T1A	Code:	T1C	Code:	T2A	Code:	T3F
Percent:	25	Percent:	30	Percent:	40	Percent:	5

3. Legislation Supported by CYOP

Code:	ESA	Code:	MA	Code:	MFA	Code:	MMPA
Percent:	25	Percent:	25	Percent:	25	Percent:	25

4. "Our Living Oceans" Units Associated with CYOP

Code:	17	Code:	18	Code:	23	Code:	24
Percent:	10	Percent:	35	Percent:	35	Percent:	20

5. Fishery Management Plans Associated with CYOP

Code:	12	Code:	30	Code:	32	Code:	34
Percent:	30	Percent:	15	Percent:	15	Percent:	30

6. Facilities Where CYOPs Activities Take Place

Code:	SWC2	Code:		Code:		Code:	
Percent:	100	Percent:		Percent:		Percent:	

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

The Director's office and Administration provide overall management guidance/leadership and all administrative support for the Honolulu Laboratory scientific and technical support programs. Ensure efficient and effective use of human, facility and fiscal resources. Serve as focus for communication of scientific programs with outside agencies and public. Interact with WPRFMC to provide scientific advice for fishery management.

This CYOP addresses all the scientific programs underway at the Honolulu Laboratory.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To provide guidance and overall management and Administration of both human and fiscal resources for the Honolulu Laboratory;

b) To improve accountability of both human and fiscal resources among investigations chiefs;

c) To improve productivity and efficiency for scientific programs, technical support programs, and Administration.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

1) Provide leadership to staff on research directions and seek adequate funding for research;

2) Improve facility to provide conducive environment for work and to provide state-of-the art equipments to staff to increase efficiency;

3) Seek training opportunity in all areas to improve staff skills and to develop team work among all disciplines of research to maximize sharing of limited resources and to provide cooperation.

3. Products/Services

Efficient day-to-day administration of the Honolulu Laboratory in areas of procurement, personnel and facility maintenance; flow of information/products to outside agencies and the public.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

NMFS/SWC1, NMFS/SWR, WPRFMC, and personnel at Honolulu laboratory and the general public.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

1) Facility maintenance including equipment, a/c repair and maintenance 3%

2) Janitorial contract 5%

3) Training 2%

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

The Honolulu Laboratory conducts fisheries and protected species research and related activities and operations that support NMFS goals to BUILD SUSTAINABLE FISHERIES, including assessing the status of Hawaii and western Pacific pelagic and Northwestern Hawaiian Island insular fishery resources, advancing fishery predictions through fishery oceanography, managing for economic growth and promoting a healthy fishing industry, and reducing bycatch of the Hawaii longline fishery; and to RECOVER PROTECTED SPECIES, including reducing impact of human activity on endangered Hawaiian monk seals and endangered and threatened sea turtles, assessing status of Hawaii monk seal and sea turtles, and implementing conversation and recovery plans for Hawaiian monk seals and sea turtles.

Specific objectives of the Laboratory are to provide scientific information to WPRFMC, NMFS, and others for five FMPs, including Western Pacific pelagic fishery resources, NWHI lobster, NWHI bottomfish, seamount groundfish, and precious corals.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

This CYOP directly links with all other CYOPs for the Honolulu Laboratory.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
9WGN4 070	A	1	Direct and oversee honolulu laboratory's operation, including facilities	10/94	9/95
	A	2	Provide guidance for overall scientific program of Honolulu Laboratory	10/94	9/95
	A	3	Serve as focus for communication of Honolulu Laboratory scientific programs with outside agencies and the public	10/94	9/95
	A	4	Allocate fundings and personnel to achieve goals of nmfs and the Honolulu Laboratory	10/94	9/95
	A	5	Serve as the Chief Scientitist for the Ocean Color Program	10/94	9/95
	A	6	Interact with WPRFMC and Joint Institute for Marine and Atmospheric Research to ensure continuity and development of programs	10/94	9/95
9WGN4 071	A	7	Provide overall management and administrative support in the areas of budget, contracting, and procurement for the Honolulu Laboratory	10/94	9/95
	A	8	Manage, maintain and improve facility and grounds	10/94	9/95
	A	9	Perform all administrative functions associated with personnel services	10/94	9/95

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
9WGN4 071/7 2	A	10	Serve as principal contact with Western Administrative Support Center	10/94	9/95
	A	11	Ensure compliance with all pertinent government rules and regulations	10/94	9/95
	A	12	Serve as the focus for cooperation and collaboration with the Joint Institute for Marine and Atmospheric Research and all joint scientific programs.	10/94	9/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 700B **Lab/Div:** Honolulu **Page:** 1

Title: Operations

Leader: R. Michael Laurs

Budget:

Personnel: $ 45.0K Other Objects: $248.0K Total: $293.0K

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWC1 Code SWR Code HQ Code WPFMC

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T1A	Code: T1C	Code:	Code:
Percent: 50	Percent: 50	Percent: 00	Percent:

3. Legislation Supported by CYOP

Code: MA	Code: MFA	Code:	Code:
Percent: 50	Percent: 50	Percent:	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code: 17	Code: 18	Code:	Code:
Percent: 50	Percent: 50	Percent:	Percent:

5. Fishery Management Plans Associated with CYOP

Code: 12	Code: 30	Code: 32	Code: 34
Percent: 30	Percent: 15	Percent: 15	Percent: 30

6. Facilities Where CYOPs Activities Take Place

Code: SWC2	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

This CYOP provides operations support for overtime and funding of research projects which are beneficial to NMFS in addressing various scientific problems which are more cost-effective to be contracted out or through grant or cooperative agreement.

This CYOP addresses all the scientific programs except the protected species underway at the Honolulu Laboratory.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To provide funding for colloaborative projects that will help in addresses critical scientific issues in assessment area and modeling work, human and fiscal resources for the Honolulu Laboratory;

b) To provide adequate funding for overtime for sea-going employee.

Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

1) Provide collaboration with scientists from other higher education insitutions (e.g. University of Hawaii) to develope research projects that will help NMFS to meet our mandates and research.

3. Products/Services

Scientific findings and reports from funded research.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

University of Hawaii, NMFS/SWC1, NMFS/SWR, and personnel at Honolulu laboratory and other higher education institutions.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

1) R&D contract for archivial tag to be use in field experiment;

2) University of Hawaii for cooperative research

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

The Honolulu Laboratory conducts fisheries and protected species research and related activities and operations that support NMFS goals to BUILD SUSTAINABLE FISHERIES, including assessing the status of Hawaii and western Pacific pelagic and Northwestern Hawaiian Island insular fishery resources, advancing fishery predictions through fishery oceanography, managing for economic growth and promoting a healthy fishing industry, and reducing bycatch of the Hawaii longline fishery; and to RECOVER PROTECTED SPECIES, including reducing impact of human activity on endangered Hawaiian monk seals and endangered and threatened sea turtles, assessing status of Hawaii monk seal and sea turtles, and implementing conversation and recovery plans for Hawaiian monk seals and sea turtles.

Specific objectives of the Laboratory are to provide scientific information to WPRFMC, NMFS, and others for five FMPs, including Western Pacific pelagic fishery resources, NWHI lobster, NWHI bottomfish, seamount groundfish, and precious corals.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

This CYOP directly links with all other CYOPs for the Honolulu Laboratory.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
NEW	A	1	Collaborate with Joint Institute for Marine and Atmospheric Research to ensure proposed research will contribute to NMFS meeting its mandate	10/94	9/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

iv: HONOLULU LABORATORY
#: 701 DATA MANAGEMENT AND TECHNICAL SERVICES
nt Yr Task #: 8L1C1A70 DMTS - SCIENTIFIC SVC HONO

Date: 03/21/95
Prior Yr Task #:
Task Leader: ABBOTT-STOUT

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
BBOTT STOUT, SANDRA L	9	04	30,567	100.0	30,567	05/14/96	/ /
IUST, FRANCINE L	4	10	21,307	100.0	21,307	/ /	/ /
ENDIG, JUDITH L	7	04	24,988	100.0	24,988	06/25/96	/ /
AMAGUCHI, DEBORAH H	5	04	20,173	100.0	20,244	08/22/95	/ /

TOTAL FTE FTP POSITIONS= 4.000
TOTAL FTP SALARIES= 97,106

tal Salaries of FTP, PTP, and TERM EMPLOYEES	=	97,106
[redacted] B. Employer Contribution (22%) = (A x .22)	=	21,363
tal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	21,848
emium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

ENTS:

Total Labor (sum of A thru F)	=	**140,318**
Total Other (from page 2)	=	**39,600**
Total Estimated Task Cost	=	**179,918**

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY
#: 701 DATA MANAGEMENT AND TECHNICAL SERVICES
ent Yr Task #: 8L1C1A71 DMTS - ADP HONOLULU

Date: 03/21/95
Prior Yr Task #:
Task Leader: TIEMAN

	Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:								
1	HIGUCHI, WAYDE S	11	01	33,623	100.0	34,744	10/03/94	/ /
2	TIEMAN, DONALD R	12	06	47,013	100.0	47,573	05/29/96	/ /
3	UYEDA, RICHARD I	6	03	21,805	100.0	22,486	10/03/94	/ /
4	YOSHIMOTO, RONALD K	4	05	18,577	100.0	18,577	09/06/94	/ /
	TOTAL FTE FTP POSITIONS= 4.000							
	TOTAL FTP SALARIES= 123,380							
TIME PERMANENT & TERM EMPLOYEES:								
1	PAPPAS, JANET L	9	04	30,567	100.0	31,416	11/01/94	/ /
	TOTAL FTE PTP POSITIONS= 1.000							
	TOTAL PTP SALARIES= 31,416							

otal Salaries of FTP, PTP, and TERM EMPLOYEES	= 154,796
[redacted] B. Employer Contribution (22%) = (A x .22)	= 34,055
otal Salaries of TEMPORARY EMPLOYEES	= 0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	= 0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	= 34,829
remium Pay (Overtime, hazardous duty, night differential, etc.)	= 0

MENTS:

Total Labor (sum of A thru F) = 223,680
Total Other (from page 2) = 48,600
Total Estimated Task Cost = 272,280

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY
#: 701 DATA MANAGEMENT AND TECHNICAL SERVICES
ent Yr Task #: 8L1C1C72 IT-95 - HONOLULU

Date: 03/21/95
Prior Yr Task #:
Task Leader: TIEMAN

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
1. CRUSING JR, FRANK W	12	02	41,641	100.0	41,641	09/05/94	/ /

TOTAL FTE FTP POSITIONS= 1.000
TOTAL FTP SALARIES= 41,641

tal Salaries of FTP, PTP, and TERM EMPLOYEES	=	41,641
[redacted] B. Employer Contribution (22%) = (A x .22)	=	9,161
tal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	9,369
emium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F)	=	60,171
Total Other (from page 2)	=	0
Total Estimated Task Cost	=	60,171

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC -701A **Lab/Div:** Honolulu **Page:** 1

Title: Scientific Service

Leader: Sandra Abbott-Stout

Budget:

Personnel: $140.3K Other Objects: $39.6K Total: $179.9K

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWC1 Code SWC4 Code NOAA Code WPFMC

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T1A	Code: T1B	Code: T2A	Code: T1E
Percent: 25	Percent: 25	Percent: 25	Percent: 25

3. Legislation Supported by CYOP

Code: MA	Code: ESA	Code: MMPA	Code:
Percent: 70	Percent: 10	Percent: 20	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code: 18	Code: 23	Code: 24	Code: 21
Percent: 50	Percent: 25	Percent: 10	Percent: 15

5. Fishery Management Plans Associated with CYOP

Code: 30	Code: 32	Code: 34	Code:
Percent: 10	Percent: 40	Percent: 50	Percent:

6. Facilities Where CYOPs Activities Take Place

Code: SWC2	Code:	Code:	Code:
Percent: 98	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

The resources of the Honolulu Laboratory Library helps support the research mandated by the Endangered Species Act, The Marine Mammal Protection Act, The Magnuson Act and the information needs of the Western Pacific Regional Fisheries Management Council.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

To provide library and publication support services for the Honolulu Laboratory's management, research and administrative staff to efficiently and effectively meet NMFS' mission in the management of living marine resources.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Maintenance of the on-line library system; procurement of current scientific publications; literature searches; typing, filing, proof reading, and development of graphics for scientific publications

3. Products/Services

Products are provided in the form of typed manuscripts, correspondence, and current scientific reference materials. Consultation and training services are provided.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

All members of the Honolulu Lab, the Pacific Area Office of the Southwest Region, various federal, state, local agencies and the general public use the services of the Library. Editorial support is limited to Honolulu Lab personel. Honolulu Lab employees offer suggestions for library purchases.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

Xerox Corp.	Photocopy machine lease
Tamio Otsu	Translations

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

As a support service, the library and editorial office supports the projects planned by the Director and Task leaders of the Honolulu Laboratory.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

The library draws on the resources of various other libraries in the country to help support the needs of researchers. The NOAA Central Library and the Univeristy of Hawaii library are major suppliers of information for the Honolulu Laboratory.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
8L1C1 A70	A	1	Final production of publications, administrative reports, and translations	10/94	9/95
	A	2	Final production of cruise reports, cruise narratives and press releases.	10/94	9/95
	A	3	Develop illustrational material for publications, reports and symposia	10/94	9/95
	A	4	Provide editorial services to enhance scientific writing capabilities of Honolulu Laboratory staff	10/94	9/95
	A	5	Provide library and scientific reference service to research programs	10/94	9/95
	A	6	Assist and coordinate translation of foreign scientific publications	10/94	9/95
	A	7	Computerize card catalogue of existing holding	10/94	9/95
	A	8	Purchase and catalog periodicals, books, and symposia.	10/94	9/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC- 701B & C **Lab/Div:** Honolulu **Page:** 1

Title: Information and Technical Services

Leader: Donald R. Tieman

Budget:

Personnel: $284.0K Other Objects: $48.6K Total: $332.6K

ASSOCIATION ITEMS SECTION

1. Agencies: Code SWC1 Code HQ Code SWR Code NOAA

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T1A	Code: T1B	Code: T2A	Code: T1E
Percent: 25	Percent: 25	Percent: 20	Percent: 15

3. Legislation Supported by CYOP

Code: MA	Code: ESA	Code: MMPA	Code:
Percent: 70	Percent: 10	Percent: 20	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code: 18	Code: 21	Code: 23	Code: 24
Percent: 50	Percent: 15	Percent: 25	Percent: 10

5. Fishery Management Plans Associated with CYOP

Code: 34	Code: 32	Code: 30	Code:
Percent: 50	Percent: 40	Percent: 10	Percent:

6. Facilities Where CYOPs Activities Take Place

Code: SWC2	Code:	Code:	Code:
Percent: 98	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

This CYOP provides assistance and tools for the management, research, and administrative staff to efficiently and effectively meet NMFS' mission in the management of living marine resources.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To provide computer resources to the scientific and management staff of the Honolulu Lab and Regional Office.

b) To provide electronic communications services to permit sharing of information locally, nationally, and internationally.

c) To provide consultation and assistance on computer related questions.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Procurement of upgrades to computer hardware and software.
Maintenance and upgrades to in-house local area network.
Conversion of data to relational database format.
Acquiring Internet access through University of Hawaii.
Training of personnel on new hardware and software.
Monitoring and administering in-house computer systems.

3. Products/Services

Consulting services, repair and upgrades to computer hardware, Internet access, electronic mail, file repository, backup and sharing, printed and visual information, software access, hardware sharing, and training

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

All members of the Honolulu Lab, the Pacific Area Office of the Southwest Region, WPRFMC, and various federal, state and local agencies all receive products, supplies, and services provided by the Information and Technical Services CYOP.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

No major contracts.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

ITS supports all plans, mandates, and authorities by providing the research, management, and administrative programs with the computer and communications resources necessary for the management of living marine resources.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

Southwest Center, NMFS HQ, Southwest Region, U.H. Hawaii, WPRFMC

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
8L1C1 A71 8L1C1 C72	A	1	Operates and monitors Local Area Network equipment, software, and communications links.	10/94	9/95
	A	2	Evaluate, procure, install and maintain hardware, software and services for the Lab computer resources.	10/94	9/95
	A	3	Design, program, test, install, maintain and operate ITS systems	10/94	9/95
	A	4	Provide consultation and assistance on ITS related issues.	10/94	9/95
	A	5	Provide training for users.	10/94	9/95
	A	6	Coordinates conversion of databases and development of information system.	10/94	9/95
8L1C1 C72	A	7	Provide overall leadership for oracle software conversion	10/94	9/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY
#: 720 STOCK ASSESSMENT
nt Yr Task #: 8L1A7A70 PELAGIC RESOURCE MODELING

Date: 03/21/95
Prior Yr Task #:
Task Leader: WETHERALL

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
AIGHT, WAYNE R	9	03	29,641	66.7	20,028	05/01/95	05/01/95
KILLMAN, ROBERT A	13	00	60,474	100.0	60,474	/ /	/ /
ETHERALL, JERRY A	14	00	71,983	100.0	71,983	/ /	/ /
ONG, MARIAN Y	11	10	43,712	25.0	10,928	/ /	/ /

TOTAL FTE FTP POSITIONS= 2.917
TOTAL FTP SALARIES= 163,413

al Salaries of FTP, PTP, and TERM EMPLOYEES	=	163,413
[redacted] B. Employer Contribution (22%) = (A x .22)	=	35,950
al Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	36,767
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

OMMENTS:

Total Labor (sum of A thru F) = 236,131
Total Other (from page 2) = 49,000
Total Estimated Task Cost = 285,131

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 720 **Lab/Div:** Honolulu Lab **Page:** 1

Title: Stock Assessment

Leader: Jerry Wetherall

Budget:

Personnel: $236.1K Other Objects: $49.0K Total: $285.1K

ASSOCIATION ITEMS SECTION

1. Agencies:

Code	Code	Code	Code
WPFMC	SWC1	SPC	HI DLNR

2. NOAA Strategic Plan Elements Supported by CYOP

Code:	Code:	Code:	Code:
T1A	T2A	T1E	T1C
Percent:	Percent:	Percent:	Percent:
60	20	10	10

3. Legislation Supported by CYOP

Code:	Code:	Code:	Code:
MA	ESA		
Percent:	Percent:	Percent:	Percent:
80	20		

4. "Our Living Oceans" Units Associated with CYOP

Code:	Code:	Code:	Code:
18	16	24	17
Percent:	Percent:	Percent:	Percent:
45	30	20	5

5. Fishery Management Plans Associated with CYOP

Code:	Code:	Code:	Code:
34	30	32	
Percent:	Percent:	Percent:	Percent:
45	30	5	

6. Facilities Where CYOPs Activities Take Place

Code:	Code:	Code:	Code:
SWC2			
Percent:	Percent:	Percent:	Percent:
100			

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

Management of marine resources by NMFS and the WPRFMC, requires competent scientific advice based on comprehensive fishery monitoring, biological research and stock assessment.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To determine the status of highly migratory pelagic resources, particularly swordfish, assess impacts of the expanding U.S. longline fishery in the North Pacific, and develop management advice to protect stocks from overfishing.

b) To assess the status of spiny and slipper lobster populations in the Northwestern Hawaiian Islands and establish safe annual harvest quotas based on best scientific information.

c) To assess and monitor the Hawaiian green turtle population and determine effects of U.S. Pacific pelagic longline fishery on mortality of protected and endangered sea turtles in the Pacific.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Models of population dynamics and harvest (or incidental fishing mortality) are developed based on fishery statistics, survey data, and biological studies. Statistical methods and numerical techniques are developed to evaluate alternative management options and find options to best achieve population maintenance or recovery objectives. Inter-agency and/or international collaboration are pursued as appropriate to address regional issues.

3. Products/Services

Technical reports, catch quotas, and other information are produced and disseminated to NMFS managers, the WPRFMC, industry advisory

panels, and other clients. Scientific work is published in peer-reviewed journals.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Clients include NMFS management, WPRFMC, international fishery management bodies, USFWS, members of the commercial and recreational fishing communities, marine resource conservation groups and other NGOs.

Program depends on information from WPRFMC, members of the U.S. commercial and recreational fishing communities, and research collaborators within NMFS and in foreign fishery research laboratories and agencies.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

None.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Program addresses scientific needs of Fishery Management Plans (FMPs) for pelagic resources, crustacean resources, and bottomfish resources of the Western Pacific Region, as prepared by the WPRFMC under authority of the Magnuson Act.

Program addresses scientific needs of the Interim Recovery Plan for Hawaiian Sea Turtles, as prepared by NMFS under authority of the Endangered Species Act. Program also addresses research mandates specified in the NMFS Biological Opinion on Incidental Mortality of Turtles in the Hawaii Longline Fishery.

Program provides scientific information and guidance required by NMFS to fulfill these Congressional mandates.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

The CYOP involves collaboration with the SWFSC laboratory in La Jolla, California; the South Pacific Commission Tuna and Billfish Assessment Program; the University of Hawaii's Pelagic Fisheries Research Program; and research programs in foreign laboratories around the Pacific basin (Japan, Mexico, Taiwan, Australia, Korea).

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
8L1A7A70	A	1	Lead multidisciplinary team of scientists to develop plan for laboratory overall swordfish research	10/94	9/95
	A	2	Coordinate research on NWHI lobster as required	10/94	9/95
	M	3	Issue NWHI 1995 lobster catch quota	10/94	1/95
	M	4	Issue NWHI lobster status of stocks report	10/94	1/95
	A	5	Develop and issue report on improved lobster catch quota method	12/94	7/95
	A	6	Conduct annual NWHI lobster population survey	10/94	6/95
	A	7	Provide expertise to development of IT-95 Oracle pelagic fishery database	1/95	9/95
	A	8	Provide pelagic resource and fishery monitoring support to WPRFMC	10/94	9/95
	E	9	Collaborate in swordfish tracking cruise (Townsend Cromwell)	10/94	5/95
	A	10	Develop stock monitoring and assessment models for Pacific swordfish	10/94	9/95
	M	11	Issue annual swordfish fishery and stock status report	10/94	9/95

8L1A7A70	A	12	Develop tag-recapture models for green turtle inshore population assessment	3/95	9/95
	A	13	Estimate turtle takes in Hawaii longline fishery and key factors	7/95	9/95
	E	14	Provide expertise to Hawaii longline turtle take mitigation workshop	10/94	2/95
	E	15	Issue estimate of East Island green turtle nesting population	10/94	2/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY
#: 721 FISH ECOLOGY PROGRAM
ent Yr Task #: 8L1A6A71 PELAGIC FISHERY DYNAMICS

Date: 03/21/95
Prior Yr Task #:
Task Leader: BOGGS

	Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
	TIME PERMANENT & TERM EMPLOYEES:							
1.	BOGGS, CHRISTOFER H	12	06	47,013	100.0	47,908	02/21/95	/ /
2.	CHANG, RANDOLPH K	11	10	43,712	100.0	43,712	/ /	/ /
3.	KAZAMA, THOMAS K	11	09	42,591	100.0	43,432	01/11/95	/ /
4.	MOFFITT, ROBERT B	11	04	36,986	100.0	38,107	10/18/94	/ /
5.	MUNDY, BRUCE C	11	04	36,986	100.0	38,014	11/01/94	/ /
6.	SHIOTA, PAUL M	11	08	41,470	100.0	41,844	06/14/95	/ /

TOTAL FTE FTP POSITIONS= 6.000
TOTAL FTP SALARIES= 253,017

tal Salaries of FTP, PTP, and TERM EMPLOYEES		=	253,017
[redacted]	B. Employer Contribution (22%) = (A x .22)	=	55,663
tal Salaries of TEMPORARY EMPLOYEES		=	0
[redacted]	D. Leave Surcharge (18.3%) = (C x .183)	=	0
Cst of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)		=	56,928
Premium Pay (Overtime, hazardous duty, night differential, etc.)		=	0

ICMENTS:

Total Labor (sum of A thru F) = 365,609
Total Other (from page 2) = 64,100
Total Estimated Task Cost = 429,709

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC- 721 **Lab/Div:** Honolulu **Page:** 1

Title: Fish Ecology Program

Leader: Christofer H. Boggs

Budget:

Personnel: ~~$369.2K~~ 365.6 Other Objects: $ 64.1K Total: ~~$433.3K~~ 429.7

ASSOCIATION ITEMS SECTION

1. Agencies: Code WPFMC Code other JIMAR Code FAO Code HI DLNR

2. NOAA Strategic Plan Elements Supported by CYOP

Code:T3D	Code:T1A	Code:T1C	Code:T3A
Percent:50	Percent:20	Percent:20	Percent:10

3. Legislation Supported by CYOP

Code:MA	Code:	Code:	Code:
Percent:100	Percent:	Percent:	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code:18	Code:17	Code:16	Code:
Percent:70	Percent:25	Percent:5	Percent:

5. Fishery Management Plans Associated with CYOP

Code:34	Code:32	Code:30	Code:
Percent:70	Percent:25	Percent:5	Percent:

6. Facilities Where CYOPs Activities Take Place

Code:SWC2	Code:	Code:	Code:
Percent:100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

The Fish Ecology Program conducts basic research and fieldwork to improve understanding of the variability in resource abundance and fishing success. The problem is to discriminate and quantify variations due to human impacts on stocks, changes in fishery operations, and natural factors such as fish movements and ecosystem variables. This understanding is needed to improve forecasts of fishery dynamics, quantify fishery interactions and conduct stock assessments. The most important management problems involve variation in pelagic CPUE for broadbill swordfish, tuna, and other billfish in the Hawaii longline fishery. Current management regulation presume that CPUE may be affected by this fishery, which is regulated. Other WPFMC management-related problems require information on lobster and bottomfish biology that are addressed by the program.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To discriminate and quantify ecological and fishery effects on CPUE in fisheries managed by the WPFMC, especially the Hawaii swordfish and tuna fisheries, but also the bottomfish and lobster fisheries.

b) To provide basic biological and ecological research on managed species to improve the understanding of mechanisms that control resource distribution and abundance.

c) To develop and test provide basic information, techniques, and tools to permit scientific monitoring of resources and resource ecology.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Fieldwork is conducted to study distribution, movements, abundance, and capture condition (for purposes of live-release) in relation to time, depth, and oceanographic variables. Biological sampling provides material for studies of habitat use, diet, development (needed for identification) movements, and stock structure. Fishery statistics are analyzed for evidence of ecological relationships, fishery interactions and impacts on abundance, the latter in cooperation with the Stock Assessment Investigation (SAI). Biological studies are reviewed and synthesized to provide advice to fishery management agencies.

3. Products/Services

Reports of research on managed species are produced and disseminated to NMFS managers, various advisory groups to the WPFMC, FAO, and JIMAR. Scientific results are published in peer-reviewed journals.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Clients include other SWC2 programs, the WPFMC, NMFS managers, FAO, JIMAR, and HI DLNR other national and international fishery management bodies and the commercial and recreational fisheries.

The program depends on input from University of Hawaii JIMAR projects, the SWR observer program, the voluntary cooperation of commercial and recreational fishermen and fish markets, and the HI DLNR.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

None .

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

The program primarily addresses the scientific needs of the fishery management plans (FMP's) developed by the WPFMC for pelagic species, bottomfish and seamount groundfish, and crustaceans. The priorities for research on managed species are largely set by the decisions of the WPFMC, which has recently emphasized the importance of pro-active management for the Hawaii longline fishery. Many aspects of the CYOP also address goals of wider organizations, such as the FAO's interest in investigating Pacific tuna fisheries interaction. Other mandates are provided directly from NMFS Headquarters, such that for E8.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

Collaborative research with several University of Hawaii JIMAR Pelagic Fishery Research Program (PFRP) projects with combined annual budgets totaling of ca. $350K and 7 full or part-time staff involves primary scientific guidance by the Fish Ecology Program Leader and provides direct input of research results to the Program. Reports and data products are fed back to the JIMAR PFRP and to the WPFMC. The HI DLNR is a primary source of fishery statistics and a recipient of feedback based on analysis of its data. There is also collaboration with other SWC2 programs and the SWR longline fishery observer program. The program collaborates in the FAO's tuna fishery interaction consultation and TUNET network and collaborates with the SWC1 and SPC sponsored Western Pacific Yellowfin Research Group (WPYRG).

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
8L1A6 A71	A	1	Lead/coordinate multidisciplinary team concerning laboratory tuna research	10/94	9/95
	M	2	Complete 2 papers on tuna fishery interaction for FAO consult. proceedings	10/94	4/95
	A	3	Direct JIMAR HICEA project analysis of historical Hawaii tuna fishery data	10/94	9/95
	A	4	Analyze time-depth and viability-for-release data on longline-caught fish	10/94	9/95
	E	5	Conduct 2 research cruises to study swordfish ecology and gear vulnerability	4/95 and 7/95	5/95 and 8/95
	A	6	Direct JIMAR project on environmental effects on swordfish fishing success	12/94	9/95
	A	7	Coordinate research on NWHI bottomfish research as required	10/94	9/95
	M	8	Complete Hawaii bottomfish section for annual WPFMC status of stocks report	8/94	8/95
	E	9	Publish paper on habitat and life history of hawaiian pink snapper	10/94	9/95
	M	10	Publish paper describing the larval development of pelagic armorhead	7/93	9/95
	A	11	Serve on WPFMC management plan monitoring teams for pelagics and bottomfish	10/94	9/95

8L1A6 A71	E	12	Assist the SAI by leading NWHI lobster survey cruise	5/95	6/95
	A	13	Upgrade research cruise equipment and instruments	1/95	9/95
	E	14	Complete oceanic Pacific section of NBS report on U.S. natural resources	12/94	4/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

NO APPEAL MADE (hands are full with CYOP as is)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY | **Date:** 03/21/95
#: 730 ECOSYSTEM & ENVIRONMENT INVESTIGATION: OCEANOGRAPHY | **Prior Yr Task #:**
ent Yr Task #: 8L1C5A73 FISHERY OCEANOGRAPHY | **Task Leader:** POLOVINA

	Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
	TIME PERMANENT & TERM EMPLOYEES:							
1	KOBAYASHI, DONALD R	9	02	28,715	100.0	29,332	02/20/95	/ /
2	POLOVINA, JEFFREY J	14	08	69,843	100.0	69,843	03/05/97	/ /

TOTAL FTE FTP POSITIONS= 2.000
TOTAL FTP SALARIES= 99,175

tal Salaries of FTP, PTP, and TERM EMPLOYEES		=	99,175
[redacted]	B. Employer Contribution (22%) = (A x .22)	=	21,818
tal Salaries of TEMPORARY EMPLOYEES		=	0
[redacted]	D. Leave Surcharge (18.3%) = (C x .183)	=	0
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)		=	22,314
emium Pay (Overtime, hazardous duty, night differential, etc.)		=	0

ENTS:

Total Labor (sum of A thru F) = 143,307
Total Other (from page 2) = 46,500
Total Estimated Task Cost = 189,807

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 730 **Lab/Div:** Honolulu **Page:** 1

Title: Fisheries Oceanography

Leader: Jeffrey Polovina

Budget:

Personnel: $143.3K Other Objects: $ 46.5K Total: $ 189.8K

ASSOCIATION ITEMS SECTION

1. Agencies: Code WPFMC Code SPC Code Code

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T1A	Code: T1C	Code: T3C	Code: T4D
Percent: 25	Percent: 25	Percent: 25	Percent: 25

3. Legislation Supported by CYOP

Code:MA	Code: MMPA	Code:	Code:
Percent: 80	Percent: 20	Percent:	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code:18	Code:16	Code:17	Code:
Percent:40	Percent:20	Percent:20	Percent:

5. Fishery Management Plans Associated with CYOP

Code:34	Code:30	Code:32	Code:
Percent:40	Percent:20	Percent:20	Percent:

6. Facilities Where CYOPs Activities Take Place

Code:swc2	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

Advance our understanding of population dynamics of marine resources, particularly those for which NMFS has management responsibility.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To describe how environmental variation impacts population abundance and distribution of fisheries and protected species resources in the central Pacific.

b) To evaluate the utility of output from ocean circulation models for fisheries management.

c) To provide advice on biological status of stocks to Western Pacific Fisheries Management Council.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Various analytical approaches are used to describe the spatial and temporal dynamics of important marine resources and quantify physical-biological links for these resources.

3. Products/Services

Scientific publiations, Reports and presentations to the Western Pacific Fisheries Management Council.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Western Pacific Fisheries Management Council, Fisheries Scientists and Managers.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

no major contracts

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Supports NMFS Southwest Region Plan FY 1993-97 (Admin Rpt. LJ-92-06).

Supports Western Pacific Regional Fisheries Management Council's Crustacean and Pelagics FMP Plan Team research needs.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

Coordinated with SWC Honolulu Laboratory Stock Assessment Investigation, Protected Species Investigation, Fish Biology and Ecology Investigation, and Fisheries Information and Performance Investigation.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
8L1C5 A73	E	1	Present research results on decadal variation at PICES meeting October 1994	10/94	10/94
	M	2	Publish manuscript on decadal-scale physical - biological linkages in the central and North Pacific.	10/94	9/95
	E	3	Present results from tuna fisheries oceanography investigations in the equatorial Pacific at the Tuna Conference.	5/95	5/95
	A	4	Evaluate data from the TOPEX satellite to identify foraging habitat of swordfish around Hawaii.	1/95	9/95
	A	5	Use output from Navy's circulation model to identify regions around Hawaii of biological aggregation and dispersion.	10/94	9/95
	A	6	Convene Crustacean FMP Plan Team to address lobster fishery management issues	10/94	9/95
	A	7	Update physical and biological time series for NWHI ecosystem	10/94	9/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY
#: 731 FISH BIOLOGY & ECOLOGY INVESTIGATION
ent Yr Task #: 8L1A6A73 LIFE HISTORY

Date: 03/21/95
Prior Yr Task #:
Task Leader: DEMARTINI

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
DE MARTINI, EDWARD E	13	00	49,517	100.0	49,517	/ /	/ /
HUMPHREYS JR, ROBERT L	9	06	32,419	100.0	32,419	02/06/96	/ /
LANDGRAF, KEVIN C	6	05	23,167	100.0	23,167	05/28/96	/ /
SAMPAGA, JEFFREY D	5	08	22,617	100.0	22,617	05/29/96	/ /
UCHIYAMA, JAMES H	11	09	42,591	100.0	42,591	09/21/94	/ /
TOTAL FTE FTP POSITIONS= 5.000							
TOTAL FTP SALARIES= 170,311							
TIME PERMANENT & TERM EMPLOYEES:							
WILLIAMS, HAPPY A	5	04	20,173	100.0	20,173	07/23/96	/ /
TOTAL FTE PTP POSITIONS= 1.000							
TOTAL PTP SALARIES= 20,173							

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	190,484
[redacted] B. Employer Contribution (22%) = (A x .22)	=	41,906
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	42,858
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

OMENTS:

Total Labor (sum of A thru F) = 275,249
Total Other (from page 2) = 45,900
Total Estimated Task Cost = 321,149

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC- 731 **Lab/Div:** Honolulu **Page:** 1

Title: Life History

Leader: Edward E. DeMartini

Budget:

Personnel: $275.3K Other Objects: $ 45.9K Total: $321.2K

ASSOCIATION ITEMS SECTION

1. Agencies: Code WPFMC Code other (CICESE) Code other (Far Seas Lab, Japan) Code other U. Hawaii

2. NOAA Strategic Plan Elements Supported by CYOP

Code:	T1A	Code:	T2A	Code:	T3D	Code:	
Percent:	70	Percent:	10	Percent:	20	Percent:	

3. Legislation Supported by CYOP

Code:	ESA	Code:	MA	Code:	MMPA	Code:	
Percent:	5	Percent:	90	Percent:	5	Percent:	

4. "Our Living Oceans" Units Associated with CYOP

Code:	17	Code:	18	Code:	21	Code:	23
Percent:	10	Percent:	70	Percent:	10	Percent:	10

5. Fishery Management Plans Associated with CYOP

Code:	32	Code:	34	Code:		Code:	
Percent:	10	Percent:	70	Percent:		Percent:	

6. Facilities Where CYOPs Activities Take Place

Code:	SWC2	Code:		Code:		Code:	
Percent:	100	Percent:		Percent:		Percent:	

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

The major current focus of the Life History Program is to produce accurate descriptors of swordfish age/growth and size-at-50% sexual maturity, to provide input needed for central Pacific swordfish management based on age-specific growth models.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To characterize the age-at-length & growth of central Pacific swordfish;

b) to characterize the size-at-50%-sexual maturity of swordfish; and

c) to complete analyses and manuscript preparation (through submission to peer-reviewed journals) for prior unfinished research conducted by LHP personnel.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

a) Develop strategic plan for swordfish life history research, including (1) data collection and analysis elements to be conducted by Honolulu Laboratory personnel using Honolulu Laboratory facilities, and (2) data analysis elements to be conducted by collaborating contractors at other government agencies and academic institutions;

b) review and revise, as necessary, current procedures (inhouse, longline observer program) used to collect and archive tissue specimens used for biological research, e.g. age/growth, gonad analyses, and stock structure;

c) devise new or additional procedures of specimen collection and preparation (e.g., using cooperating fishermen), in accordance with developing research plan;

d) conduct exploratory analyses of historical and new data and reassess analysis designs; and

e) reevaluate d) and e), and make necessary changes.

3. Products/Services

a) Provide preliminary (re)estimates of key life history parameters to Stock Assessment Investigation, F/SWC2, Honolulu Laboratory; and

b) contribute original research on fish biology and ecology to peer-reviewed journals.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Clients are the Stock Assessment Investigation (J. Wetherall, Chief) of F/SWC2, the Western Pacific Fisheries Management Council, and other agencies involved in international investigations of swordfish life history such as CICESE in Mexico and the Far Seas Laboratory in Japan.

Suppliers include the SWR Observer Program and volunteer fishermen who provide samples; and the Univ. of Hawaii amd JIMAR program and other universities that provide specialized analyses.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

Several potential contracts, to perform laboratory analyses of swordfish tissue specimens that the Honolulu Laboratory is not equipped to process, have not yet been formalized. Potential contracts total $ 12 K.

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY
#: 732 ECOSYSTEM & ENVIRONMENT INVESTIGATION
ent Yr Task #: 8L1A4B74 ECOSYSTEM & HABITAT

Date: 03/21/95
Prior Yr Task #:
Task Leader: SEKI

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
EVERSON, ALAN R	9	04	30,567	100.0	30,567	09/05/94	/ /
PARRISH, FRANK A	9	03	29,641	100.0	30,027	05/29/95	/ /
SEKI, MICHAEL P	11	04	36,986	100.0	36,986	12/26/95	/ /

TOTAL FTE FTP POSITIONS= 3.000
TOTAL FTP SALARIES= 97,580

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	97,580
[redacted] B. Employer Contribution (22%) = (A x .22)	=	21,467
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	21,955
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F) = 141,003
Total Other (from page 2) = 7,000
Total Estimated Task Cost = 148,003

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 732 **Lab/Div:** Honolulu **Page:** 1

Title: Ecosystem and Habitat Program

Leader: Michael Seki

Budget:

Personnel: $141.0K Other Objects: $ 7.0K Total: $ 148.0K

ASSOCIATION ITEMS SECTION

1. Agencies: Code WPFMC Code AKC Code USFWS Code

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T1A	Code: T3C	Code:	Code:
Percent:60	Percent: 40	Percent:	Percent:

3. Legislation Supported by CYOP

Code: MA	Code: MMPA	Code: ESA	Code:
Percent:68	Percent:16	Percent:16	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code: 18	Code: 23	Code:	Code:
Percent: 90	Percent: 10	Percent:	Percent:

5. Fishery Management Plans Associated with CYOP

Code: 34	Code: 30	Code:	Code:
Percent: 90	Percent: 10	Percent:	Percent:

6. Facilities Where CYOPs Activities Take Place

Code: SWC2	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

Advance our understanding of the link between habitat and the population dynamics of marine resources, particularly those for which NMFS has management responsibility.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To develop a baseline understanding of the faunal composition in the North Pacific Transition Zone (NPTZ) Ecosystem.

b) To develop an understanding of monk seal feeding ecology and determine whether prey availability is limiting to monk seal pup survival.

c) To define the environmental and biological parameters that will best serve as cues for identifying preferential habitat for NPTZ pelagics.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

a) Conduct spatial analysis of major species' distribution based upon existing foreign driftnet fisheries catch and effort database and conduct studies of the species assemblages of micronekton that forms the forage base for the major fishery species in the ecosystem.

b) Develop plans and conduct fieldwork for the assesssment of monk seal diet and foraging habitat from an ecosystem and archipelago perspective.

c) Continue to monitor swordfish diet and evaluate trophic relationships on spatial and temporal variability scales and with respect to size differentiation; test hypothesis that seasonal swordfish distribution and abundance is strongly influenced by meridional forage distribution.

3. Products/Services

Scientific publications, Reports and presentations to the Western Pacific Regional Fisheries Management Council.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Western Pacific Regional Fisheries Management Council, Fisheries scientists and managers.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

no major contracts

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Supports NMFS Southwest Region Plan FY 1993-97 (Admin. Rpt. LJ-92-06)

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

Coordinated with SWC Honolulu Laboratory Stock Assessment Investigation, Protected Species Investigation, and Ecology Investigation.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	ME A	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
8L1A4 B74	A	1	Develop baseline understanding of the faunal composition in the North Pacific Transition Zone (NPTZ) ecosystem in support of swordfish ecology research	10/94	9/95
	A	2	Define environmental and biological parameters identifying preferential habitat for swordfish and other transition zone pelagics	10/94	9/95
	A	3	Collaborate in research to assess monk seal diet and foraging habitat	1/95	9/95
	A	4	Develop strategy for investigating shark bycatch in Hawaii longline fishery	10/94	9/95
	M	5	Complete NPTZ faunal atlas	10/94	9/95
	E	6	Complete and present paper on North Pacific cephalopod biogeography at AMU symposium	1/95	6/95
	M	7	Complete juvenile snapper distribution manuscript	10/94	9/95
	M	8	Publish manuscript on fishery utilization of Kaneohe Bay	10/94	9/95

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY
#: 740 FISHERY MANAGMENT & PERFORMANCE
ent Yr Task #: 8L1C2A74 FISHERY MONITORING & ECON

Date: 03/21/95
Prior Yr Task #:
Task Leader: POOLEY

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
CABACUNGAN JR, FRANK L	7	04	24,988	100.0	24,988	04/02/96	/ /
DOLLAR, ROBERT A	7	01	22,717	100.0	23,159	03/06/95	/ /
ITO, RUSSELL Y	6	05	23,167	100.0	23,167	04/16/96	/ /
KAWAMOTO, KURT E	7	05	25,745	100.0	26,187	03/07/95	/ /
POOLEY, SAMUEL G	14	03	60,403	100.0	61,662	02/20/95	/ /
SUMIDA, RAY F	11	10	43,712	25.0	10,928	/ /	01/03/95
TOTAL FTE FTP POSITIONS= 5.250							
TOTAL FTP SALARIES= 170,091							
ORARY EMPLOYEES:							
DOWDELL, FREDERICK	5	01	18,340	66.7	12,232	/ /	05/09/95
TOTAL FTE TEMP POSITIONS= 0.667							
TOTAL TEMP SALARIES= 12,232							

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	170,091
[redacted] B. Employer Contribution (22%) = (A x .22)	=	37,420
otal Salaries of TEMPORARY EMPLOYEES	=	12,232
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	2,238
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	41,022
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0
Total Labor (sum of A thru F)	=	**263,005**
Total Other (from page 2)	=	**35,200**
Total Estimated Task Cost	=	**298,205**

MENTS:

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 740 **Lab/Div:** Honolulu **Page:** 1

Title: Fishery Monitoring & Economics

Leader: Sam Pooley

Budget:

Personnel: $263.0K Other Objects: $ 35.2K Total: $ 298.2K

ASSOCIATION ITEMS SECTION

1. Agencies: Code WPFMC Code SWC2 Code SWR Code

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T1A	Code: T2B	Code: T1B	Code: T3F
Percent: 50	Percent: 10	Percent:10	Percent: 10

3. Legislation Supported by CYOP

Code: MA	Code: MMPA	Code: ESA	Code: MFA
Percent: 60	Percent: 10	Percent: 10	Percent: 20

4. "Our Living Oceans" Units Associated with CYOP

Code: 18	Code: 16	Code: 17	Code:
Percent: 75	Percent: 10	Percent: 10	Percent:

5. Fishery Management Plans Associated with CYOP

Code: 34	Code: 30	Code: 32	Code:
Percent: 70	Percent: 10	Percent: 10	Percent:

6. Facilities Where CYOPs Activities Take Place

Code: SWC2	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

FMEP is the focal point for data collection and reporting for Federally-managed domestic fisheries in Hawaii, as well as economic and operational analysis directed towards fisheries management. The information compiled and analysis prepared by FMEP staff is used for domestic fisheries management in Hawaii, as well as for basic biological research.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To provide fisheries-dependent data for biological and economic research.

b) To provide reports on the status of landings and fishing activities.

c) To conduct economic and operational research.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Fisheries data are collected through Federal logbook programs, shoreside monitoring of landings, market sampling, and special surveys of fishery participants. Data are compiled in integrated data bases and made available to other users through the Laboratory's data manager. Status reports are prepared by FMEP staff on each monitored fishery. Economic research includes cost-earnings analysis of the major commercial fleets, as well as studies on operational dynamics and seafood markets. The FMEP economist also serves as principal investigator for contract socio-economic research. FMEP staff serve on plan monitoring teams of the Western Pacific Regional Fishery Management Council, as well as other scientific and advisory committees.

3. Products/Services

Annual status reports on Hawaii's major commercial fisheries.

High quality, detailed fishery information data bases for research purposes.

Reports and published papers on research results.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Inputs: FMEP depends on developing good working relationships with the Hawaii fishing community, particularly the commercial fishing industry and the seafood market sectors.

FMEP also collaborates with each of its primary clients in the provision of its services.

Clients:

Western Pacific Regional Fishery Management Council (Council)

Honolulu Laboratory research programs

Other NMFS offices (e.g., SWFSC - La Jolla, SWR & PAO)

University of Hawaii researchers

Private industry, environmental and conservation organizations, and the general public

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

Contracts are a small and infrequent percentage of the FMEP budget.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

The primary authority for FMEP work is the Magnuson Fishery Conservation and Management Act of 1976 (MFCMA). Our work also supports the Marine Mammal Protection Act and the Endangered Species Act through reporting of fishery interaction with monk seals, dolphins, and sea turtles.

FMEP fisheries-dependent data and economic analyses support NMFS strategic plan elements concerning maintaining fish populations and recovering endangered and threatened species.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

This CYOP is coordinated with the other two Fishery Management & Performance Investigation (FMPI) programs (WPACFIN and FDMP) as well as the fisheries research program (with an emphasis on the Stock Assessment Investigation). Computer programming work is also coordinated with ITS. Economic research is coordinated with the SWFSC - La Jolla and SWR (Long Beach and Pacific Area Office) economists when joint research funds are available.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
8L1C2A 74	A	1	Collect and compile biological, operational, and economic data from commercial and recreational fisheries	10/94	9/95
	E	2	Prepare quarterly reports on Federally-monitored lobster and longline fisheries	10/94	9/95
	E	3	Issue annual reports for lobster, longline, and bottomfish fisheries	6/95	6/95
	A	4	Compile and report on protected species fisheries interactions from Federally-managed fisheries	10/94	9/95
	E	5	Report on coordination of State of Hawaii and Federal data sources for NWHI bottomfish fishery	11/94	4/95
	A	6	Participate in WPRFMC activities and provide Laboratory liaison with Council staff	10/94	9/95
External funding	A	7	Provide leadership for conversion of fishery database to oracle	10/94	9/95
	A	8	Coordinate and conduct JIMAR pelagics program economic research	10/94	9/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY
#: 741 WPACFIN
ent Yr Task #: 8L1C1A75 WEST PACFIN

Date: 03/21/95
Prior Yr Task #:
Task Leader: HAMM

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
HAMM, DAVID C	12	09	51,042	25.0	12,760	03/20/96	/ /
KIKKAWA, BERT S	9	04	30,567	100.0	31,030	04/18/95	/ /
QUACH, MICHAEL M	9	04	30,567	100.0	30,721	08/22/95	/ /

TOTAL FTE FTP POSITIONS= 2.250
TOTAL FTP SALARIES= 74,511

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	74,511
[redacted] B. Employer Contribution (22%) = (A x .22)	=	16,392
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	16,765
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F) =	**107,669**
Total Other (from page 2) =	**3,500**
Total Estimated Task Cost =	**111,169**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 741 **Lab/Div:** Honolulu **Page:** 1

Title: WPACFIN

Leader: David Hamm

Budget:

Personnel: $107.7K Other Objects: $ 3.5K Total: $ 111.2K

ASSOCIATION ITEMS SECTION

1. Agencies: Code WPFMC Code SWR Code HI DLNR Code Other * (see note)

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T1A	Code: T1B	Code: T1C	Code:
Percent: 70	Percent:10	Percent:10	Percent:

3. Legislation Supported by CYOP

Code: MA	Code: MFA	Code: IFA	Code:
Percent: 70	Percent: 20	Percent: 10	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code: 18	Code: 17	Code: 16	Code:
Percent: 60	Percent: 30	Percent: 10	Percent:

5. Fishery Management Plans Associated with CYOP

Code: 34	Code: 32	Code: 30	Code: 31
Percent: 50	Percent: 40	Percent: 5	Percent: 5

6. Facilities Where CYOPs Activities Take Place

Code: SWC2	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

The Western Pacific Fishery Information Network (WPACFIN) was developed to supply timely and accurate fisheries data for planning and management purposes. The WPACFIN is the central source of information on most fisheries in American Samoa, the Commonwealth of the Northern Mariana Islands (CNMI), Guam, and Hawaii. Information obtained through WPACFIN is instrumental in meeting Council, FMP, and Magnuson Fishery Conservation and Management Act (MFCMA) requirements in the western Pacific region.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To coordinate fisheries monitoring activities in the western Pacific region by establishing and operating a cooperative data and information exchange network.

b) To provide technical support to island government fisheries agencies in establishing, maintaining, and upgrading data collecting and processing systems to improve fisheries monitoring and management in the region.

c) To facilitate sharing data and information resources among qualified users by establishing and maintaining central data bases containing detailed fisheries data for the region.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Through providing technical assistance to Pacific island fisheries agencies, WPACFIN's cooperative program establishes and maintains a regional information network to help meet the data requirements of the MFCMA. The WPACFIN also facilitates administration of funds available to island fisheries agencies through the PACFIN system data initiative to improve local data collecting and processing systems and filling information gaps. Fishery data are collected primarily by local government agencies and then accumulated, compiled, and maintained in a regional database system at the Honolulu Laboratory. Microcomputer systems are used in each office to capture and computerize the data before automated copies of the databases are sent to the central WPACFIN system. Information is then made available to qualified users for numerous reporting and analytical purposes.

3. Products/Services: The WPACFIN coordinates compilation of summary statistics from all participating agencies and distributes them in the administrative report series "Fishery Statistics of the Western Pacific." Other products include ad hoc reports, responses to data requests, submission of summary reports to various fishery management plan monitoring teams, and assistance in submission of island modules for the annual bottomfish and pelagics plan monitoring team reports. WPACFIN also provides customized computer programs (e.g. for creel

surveys, market monitoring, data anaylsis, PMT reporting etc.) to its member states, as well as computer consulting assistance.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Clients include: NMFS employees; the Western Pacific Regional Fishery Management Council and its staff, Scientific and Statistical Committee, advisory groups, and fishery management plan monitoring teams; Pacific Island fisheries agencies; University researchers; contractors; the fishing industry; and international organizations such as the South Pacific Commission and FFA. Inputs come from five island government fisheries agencies and some industry contacts.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

The only major "contracts" in support of WPACFIN activities are handled separately through the SWR as Cooperative Agreements from PACFIN add-on funds. This CYOP has about 2% available for contracts, which typically is for printing reports and repairing computers.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

The WPACFIN program was established in 1981 in direct support of MFCMA and FMP requirements in the western Pacific as the means of obtaining and using the best information available for fisheries management activities. Meeting Council- and FMP-related and other data and information needs as mandated and authorized by MA, MFA, and IFA is a high priority throughout NMFS. The WPACFIN program facilitates accomplishing that in the western Pacific region.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

Principal collaboration of most activities involves all governmental fisheries agencies in the area, including the American Samoa Department of Marine and Wildlife Resources, Hawaii Department of Land and Natural Resources' Division of Aquatic Resources, Guam Department of Commerce, Guam Department of Agriculture's Division of Aquatic and Wildlife Resources, Commonwealth of the Northern Mariana Island Department of Natural Resources' Division of Fish and Wildlife, and the western Pacific Council. Other linkages for coordination of inputs and outputs include the SWFSC, SWR, NMFS HQ, numerous industry and university contacts in the region, as well as the Pacific States Marine Fisheries Commission, South Pacific Commission, Forum Fisheries Agency, and USFWS. Historically, WPACFIN has also provided limited technical support to fisheries agencies in the Compact States and Palau.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Lab/Div: Honolulu CYOP No. SWC - 741

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
8L1C1A 75	A	1	Participate in and coordinate activities of the FDCC.	10/94	9/95
	A	2	Participate in WPRFMC Plan Monitoring Team meetings.	10/94	9/95
	A	3	Liaison with industry and other Pacific Island fisheries agencies.	10/94	9/95
	A	4	Collect, centralize, and maintain fisheries data from Guam, American Samoa, Northern Mariana Islands, and Hawaii.	10/94	9/95
	M	5	Produce current year volume of Fishery Statistics of the Western Pacific.	10/94	9/95
	A	6	Coordinate and monitor Cooperative Agreements with island agencies.	10/94	9/95
external funding	A	7	Coordinate providing technical support etc. if funded through PACFIN add-on funds (as described in add-on CYOP for task 8L1B1NPF).	10/94	9/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY
' #: 742 FISHERY DATA MANAGEMENT
ent Yr Task #: 8L1C2A76 FISHERY DATA MANAGEMENT

Date: 03/21/95
Prior Yr Task #:
Task Leader: HAMM

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
HAMM, DAVID C	12	09	51,042	75.0	38,281	03/20/96	/ /
TAGAMI, DARRYL T	9	07	33,345	100.0	33,345	06/25/97	/ /
TSUKANO, LUCILLE T	6	10	26,572	100.0	26,572	/ /	/ /
TOTAL FTE FTP POSITIONS= 2.750							
TOTAL FTP SALARIES= 98,198							
' TIME PERMANENT & TERM EMPLOYEES:							
MIYAMOTO, BRENT M	7	03	24,231	100.0	24,988	10/03/94	/ /
TOTAL FTE PTP POSITIONS= 1.000							
TOTAL PTP SALARIES= 24,988							

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	123,186
[redacted] B. Employer Contribution (22%) = (A x .22)	=	27,101
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	27,716
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F)	=	**178,004**
Total Other (from page 2)	=	**31,700**
Total Estimated Task Cost	=	**209,704**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 742 **Lab/Div:** Honolulu **Page:** 1

Title: Fishery Data Management

Leader: David Hamm

Budget:

Personnel: $178.0K Other Objects: $ 31.7K Total: $ 209.7K

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code SWC2 Code SWC1 Code SWR Code HQ

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code: T1A	Code: T1B	Code: T1C	Code: T3C
Percent: 50	Percent:20	Percent:10	Percent:10

3. **Legislation Supported by CYOP**

Code: MA	Code: MFA	Code: IFA	Code: MMPA
Percent: 50	Percent: 20	Percent: 10	Percent: 10

4. **"Our Living Oceans" Units Associated with CYOP**

Code: 18	Code: 17	Code: 16	Code:
Percent: 60	Percent: 20	Percent: 10	Percent:

5. **Fishery Management Plans Associated with CYOP**

Code: 34	Code: 32	Code: 30	Code: 31
Percent: 50	Percent: 20	Percent: 10	Percent: 5

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC2	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

This is a data management support function for all data collection, biological sampling, and research cruises and initiatives undertaken by the Honolulu Laboratory. Meeting the goals of this CYOP is instrumental to meeting all fisheries management and scientific investigations goals of the other programs within the Honolulu Laboratory.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To provide data management support for all Laboratory activities which include obtaining, processing, and archiving fisheries and ecosystem data.

b) To provide appropriate handling, entering, quality controlling, and archiving of Laboratory data and information resources.

c) To coordinate sharing data and information resources among local scientists and qualified external users.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

A wide range of modern data processing and management protocols and procedures are used in a microcomputer-minicomputer networked environment to ensure data integrity, security, and availability.

3. Products/Services The major product is access to data needed for all aspects of fisheries monitoring and research. A full range of data management services are provided to users to ensure data are available, documented, secure, and of as high quality as possible.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Principal clients are local NMFS scientists as well as others at the SWFSC, SWR, and NMFS HQ. Non-confidential data and information are also shared with many external agencies and industry contacts. Major suppliers of data are local NMFS researchers and research vessels, other Pacific island government fisheries agencies, industry, and international agencies such as the South Pacific Commission and the Forum Fisheries Agency.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

Historically, only minor contracts for off-site computer use, repair, data entry, and data archive/storage have been included within this CYOP. All contracting has been less than 5% of the total budget.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

The data management support function accomplished by this CYOP is required by virtually all research and management activities undertaken by the Laboratory, is inherent in accomplishing most strategic plan goals for which the Laboratory is involved, and is implicitly authorized and mandated by all legislative Acts which require collecting, processing, analyzing, or reporting of information.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

Most collaboration of activities are limited to local Honolulu Laboratory programs, but also include coordination with the SWFSC, SWR, NMFS HQ staff as well as the Western Pacific Fishery Management Council and external agencies in the Pacific as noted under item #4.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
8L1C2 A76	A	1	Initiate conversion of database in Oracle	10/94	9/95
	A	2	Assist HL scientist with design of forms and data management for new data collection activities.	10/94	9/95
	A	3	Obtain data from HL scientist and other sources and process to specifications.	10/94	9/95
	A	4	Perform data coding, editing, entering, and verifying activities.	10/94	9/95
	A	5	Perform data retrieval, reformatting, and archiving functions.	10/94	9/95
	A	6	Respond to data requests	10/94	9/95
	A	7	Implement data rescue procedures as resources permit	10/94	9/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY
' #: 750 MARINE MAMMAL AND ENDANGERED SPECIES
ent Yr Task #: 8L1AMS77 HAWAIIAN MONK SEALS

Date: 03/21/95
Prior Yr Task #:
Task Leader: GILMARTIN

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
, TIME PERMANENT & TERM EMPLOYEES:							
BECKER, BRENDA L	7	04	24,988	100.0	25,367	04/18/95	/ /
GILMARTIN, WILLIAM G	14	00	71,106	100.0	71,106	/ /	/ /
HENDERSON, JOHN R	11	07	40,349	100.0	40,349	11/01/95	/ /
RAGEN, TIMOTHY J	13	01	46,676	100.0	46,676	05/14/96	/ /
TOTAL FTE FTP POSITIONS= 4.000							
TOTAL FTP SALARIES= 183,498							
' TIME PERMANENT & TERM EMPLOYEES:							
JOHANOS KAM, THEA C	9	04	30,567	100.0	31,184	02/21/95	/ /
TOTAL FTE PTP POSITIONS= 1.000							
TOTAL PTP SALARIES= 31,184							

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	214,682
[redacted] B. Employer Contribution (22%) = (A x .22)	=	47,230
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	48,303
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F) = 310,215
Total Other (from page 2) = 184,100
Total Estimated Task Cost = ~~310,215~~ 494,315

SOUTHWEST FISHERIES SCIENCE CENTERs
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC- 750 **Lab/Div:** Honolulu **Page:** 1

Title: Marine Mammal Research Program

Leader: Tim Ragen

Budget:

Personnel: $309.9K Other Objects: $184.1K Total: $494.0K

ASSOCIATION ITEMS SECTION

1. Agencies: Code MMC* Code USFWS Code NBS* Code WPFMC

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T2A	Code: T2C	Code: T2B	Code: T3D
Percent: 50	Percent: 40	Percent: 5	Percent: 5

3. Legislation Supported by CYOP

Code: ESA	Code: MMPA	Code:	Code:
Percent: 50	Percent: 50	Percent:	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code: 23	Code: 16	Code: 17	Code:
Percent: 90	Percent: 5	Percent: 5	Percent:

5. Fishery Management Plans Associated with CYOP

Code: 30	Code: 32	Code: 34	Code:
Percent: 10	Percent: 10	Percent: 10	Percent:

6. Facilities Where CYOPs Activities Take Place

Code: SWC2	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

The Hawaiian monk seal is the most endangered pinniped in U.S. waters and, with its two congeners, has declined severely due to human activities. The Caribbean species is now thought to be extinct, the Mediterranean species is on the verge of extinction, and the Hawaiian monk seal numbers approximately 1400 and has been declining at 5% per year for the last decade. The problem, therefore, is the rapid and unnatural decline of this protected marine mammal.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

To assess the current status of the Hawaiian monk seal, with particular emphasis on the incidence and significance of mobbing at Laysan and Lisianski Islands and the extent and severity of the ongoing decline at French Frigate Shoals, the largest population of Hawaiian monk seals. Data on these problems will be collected, anaylyzed, and reported to provide a basis for management and mitigation of these problems, and enhancement of the species' recovery.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Primary emphasis is on assessment and description of the status and problems of each of the main reproductive populations. The Hawaiian monk seal currently exists in six main reproductive populations, although one (Midway Atoll) is near extinction. Each of these reproductive populations has distinctive problems which must be carefully assessed to provide a basis for management. Field camps are established at each site during the reproductive season to study reproduction patterns and rates, survival rates and sources of mortality, behavior patterns, food habits, rates of entanglement in marine debris and evidence of fisheries interactions, animal condition and the incidence of disease, and so on.

3. Products/Services

a) Technical memoranda summarizing the status of each of the main reproductive populations.
b) Data analyses on problems affecting monk seal recovery, such as mobbing and the catastrophic decline at French Frigate Shoals.
c) Background information for meetings of the Hawaiian Monk Seal Recovery Team.
d) Background information necessary for planning recovery actions (e.g., three-year recovery plans).
e) Journal publications on natural history and demography of the Hawaiian monk seal.
f) Development of Hawaiian monk seal database which provides longterm data on trends in monk seal populations and management approaches.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

a) National Marine Fisheries Service (Honolulu Laboratory, Southwest Fisheries Science Center, Southwest Region, Headquarters)
b) Marine Mammal Commission
c) Hawaiian Monk Seal Recovery Team
d) Fish and Wildlife Service (Hawaiian Islands National Wildlife Refuge)

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

None

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

The activities under this CYOP are clearly justified by Goal 4 of the Strategic Plan of the National Marine Fisheries, and by the Endangered Species Act and the Marine Mammal Protection Act. The Hawaiian monk seal is the most endangered pinniped in U.S. waters; it numbers approximately 1400 and is declining rapidly. Furthermore, much of its recent decline can be attributed to human activities. Therefore, its recovery is (and should be) of highest priority.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

a) Southwest Region, NMFS: collaborates on management activities, particularly those related to management of human activities that affect monk seals.
b) Fish and Wildlife Service, Hawaiian Islands National Wildlife Refuge: assumes primary responsibility for protection of land habitat; also collaborates on logistics and support activities for field studies.
c) National Biological Survey, National Wildlife Health Center, Honolulu Field Station: collaborates on issues related to health and disease of monk seals, and on captive care of seals undergoing rehabilitation and relocation. Agency provides a veterinary pathologist that performs necropsies, consults on captive care, review protocols, and analyzes data.
d) NOAA RV *Townsend Cromwell*: provides logistical support for field research.
e) Coast Guard: collaborates with logistics (transport of seals and biologists), and protection of habitat (enforcment of fishery regulations to minimize monk seal/fishery interactions).

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
8L1AM S77	E	1	Provide background information and participate in Hawaiian monk seal recovery team meeting.	10/94	12/94
	E	2	Develop 5-year plan for enhancement of Midway population.	10/94	9/95
	A	3	Assess population status at French Frigate Shoals.	5/94	9/95
	A	4	Assess population status and monitor effect of male removal at Laysan Island.	3/95	9/95
	M	5	Submit manuscript to journal comparing growth reates of immature seals at French Frigate Shoals and Laysan Island.	10/94	4/95
	M	6	Submit manuscript to journal on mobbing behavior of monk seals.	10/94	6/95
	M	7	Complete a series of Technical Memoranda on field studies of Hawaiian monk seal.	10/94	3/95
	M	8	Complete conversion of monk seal database to oracle.	10/94	9/95

(for each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: HONOLULU LABORATORY
#: 775 MARINE TURTLE RESEARCH PROGRAM
ent Yr Task #: 8L1AHT79 MARINE TURTLE RESEARCH

Date: 03/21/95
Prior Yr Task #:
Task Leader: BALAZS

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
BALAZS, GEORGE H	12	04	44,327	100.0	45,558	11/15/94	/ /

TOTAL FTE FTP POSITIONS= 1.000
TOTAL FTP SALARIES= 45,558

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	45,558
[redacted] B. Employer Contribution (22%) = (A x .22)	=	10,022
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	10,250
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F)	=	**65,831**
Total Other (from page 2)	=	**152,200**
Total Estimated Task Cost	=	**218,031**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 775 **Lab/Div:** Honolulu **Page:** 1

Title: **Marine Turtle Research Program**

Leader: George H. Balazs

Budget:

Personnel: $65.8K Other Objects: $152.2K Total: $218.0K

ASSOCIATION ITEMS SECTION

1. Agencies: Code USFWS Code SWR Code HQ Code WPFMC

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T2A	Code: T3D	Code: T2C	Code: T3F
Percent: 30	Percent: 30	Percent: 30	Percent: 10

3. Legislation Supported by CYOP

Code: ESA	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code: 24	Code: 99	Code:	Code:
Percent: 95	Percent: 5	Percent:	Percent:

5. Fishery Management Plans Associated with CYOP

Code: 34	Code: 99	Code:	Code:
Percent: 95	Percent: 5	Percent:	Percent:

6. Facilities Where CYOPs Activities Take Place

Code: SWC2	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement

This CYOP supports the NMFS mission and responsibility to monitor, achieve increased understanding of basic biology, and ultimately to recover marine turtles in the Pacific listed under the U.S. Endangered Species Act. The CYOP also assists in reducing interactions with marine turtle species that may impede the development of sustainable commercial fisheries. The overall problem is being addressed under the framework of an Interim Hawaiian Sea Turtle Recovery Plan prepared by an NMFS-appointed team of scientists, by a draft U.S. Pacific Sea Turtle Recovery Plan currently in preparation by an NMFS-appointed recovery team, by formalized research plans prepared by experts to address the fibropapilloma disease problem in sea turtles, and the issue of sea turtle hooking interactions by the North Pacific pelagic longline fishery.

1B. Objectives

a) To obtain reliable scientific information on the biology, ecology, and life history of Hawaiian and other Pacific marine turtles;

b) To monitor and determine the population status of Hawaiian and certain other Pacific marine turtles, and to refine and improve the assessment techniques being employed;

c) To investigate the scope, magnitude, and cause of the fibropapilloma disease problem affecting marine turtle populations in Hawaii, Florida, and certain sites elsewhere worldwide, and to devise solutions or containment measures for this disease;

d) To investigate, delineate, mitigate and/or prevent interactions of longline fisheries with pelagic marine turtles in the North Pacific involving species mainly of non-Hawaiian origin.

2. Methodology/Approach

Research techniques involve the mark and recapture of turtles both in the sea and on nesting beaches in order to obtain essential data on population size, health status, essential habitats utilized, growth rates, migrations, natural predation, human-related mortality, productivity, and survivorship. Basic research tools employed include netting, skin and scuba diving, satellite telemetry, cooperative assistance of commercial and recreational fishermen, shipboard fishery observers, computerized data processing, and cooperative and contracted fibropapilloma disease researchers specializing in sea turtle pathology (including parasitology and immunology).

3. Products/Services

Scientific publications, technical reports, and data are generated on the biology, ecology, life history, pathology and population dynamics of sea turtles necessary to accomplish the recovery of marine turtles and effective longterm management of the populations. Scientific guidance and advice is supplied to various Pacific island nations and territories to support international research and recovery efforts of sea turtles.

4. Clients/Suppliers

The primary clients of outputs and services are the NMFS Southwest Region, NMFS Headquarters, U.S. Fish and Wildlife Service, and the Western Pacific Fishery Management Council. Other important clients include the Hawaii Department of Land and Natural Resources, National Park Service, South Pacific Regional Environmental Program (SPREP), the South Pacific Commission, and fishery/wildlife agencies in American Samoa, Guam, Commonwealth of the Northern Mariana Islands, and U.S. affiliates of Palau, Federated States of Micronesia, and Republic of the Marshall Islands. All of the above entities also serve in varying capacities as suppliers of data and other forms of input to the CYOP.

5. Major Contracts

-Pathology and cause of fibropapilloma disease $26 K (11%)

-Aircraft charter to Hawaiian turtle breeding site $5 K (2%)

6. Justification:

This CYOP selection is directly supported by the NMFS Strategic Plan, especially Goal 4 (to integrate conservation of protected species and fisheries management); Goal 6 (to protect living marine resource habitat); and Goal 7 (to improve the effectiveness of international fisheries relationships). It is also justified by the NMFS mission under authority of the Endangered Species Act, and inter-agency responsibilities with the U.S. Fish and Wildlife Service. The CYOP's priorities come from the Interim Hawaiian Sea Turtle Recovery Plan, the draft U.S. Pacific Sea Turtle Recovery Plan, the Research Plan for Marine Turtle Fibropapilloma, the Fishery Management Plan for Western Pacific Pelagics, and the Research Plan for Marine Turtle Hooking Mortality.

7. Linkages

This CYOP is coordinated with the NMFS Southwest Region, NMFS Headquarters (Office of Protected Resources' National Sea Turtle Coordinator), the U.S. Fish and Wildlife Service, and the Western Pacific Fishery Management Council. Collaborative research and related activities also occurs with the Hawaii Department of Land and Natural Resources, the National Park Service, Sea Life Park Hawaii, and researchers at the University of Hawaii and University of Florida.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
8L1AH T79	M	1	Conduct expert workshop on mitigation/handling of hooked turtles. Prepare meeting report.	2/95	6/95
"	A	2	Investigate distribution and monitor populations of tumored and non-tumored turtles at inshore foraging habitats. Update computerized database.	10/94	9/95
"	E	3	Compute estimate of 1994 nesting population at French Frigate Shoals. Revise manuscript of 22-year census data for journal publication.	10/94	4/95
"	E,M	4	Initiate contract with turtle pathologist to further investigate cause and transmission mode of fibropapilloma tumor disease. Issue report.	10/94	9/95
"	A,M	5	Satellite-track migrations of tumored and non-tumored turtles in Hawaii and American Samoa. Prepare manuscript for journal publication.	7/95	11/96
"	A,E	6	Conduct turtle stranding salvage, and necropsy program. Prepare summary.	10/94	9/95
"	A	7	Continue interagency cooperative research with Fish and Wildlife Service and State of Hawaii Department of Land and Natural Resources.	10/94	9/95

8L1AH T79	E,A	8	Develop and implement protocol for DNA sampling in shipboard observer program. Conduct training classes.	11/94	2/95
"	A	9	Provide technical assistance to turtle research in other Pacific Island areas, to NMFS National Sea Turtle Coordinator, and to U.S. Pacific Sea Turtle Recovery Team.	10/94	9/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: TIBURON LABORATORY
#: 800 LABORATORY MANAGEMENT & SUPPORT - TIBURON
ent Yr Task #: 9WGN4081 SUPPORT - LIBRARY - TIBURON

Date: 03/21/95
Prior Yr Task #:
Task Leader: MACCALL

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
PENN, GARETH S	9	02	31,012	80.0	24,943	08/07/95	/ /

TOTAL FTE PTP POSITIONS= 0.800
TOTAL PTP SALARIES= 24,943

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	24,943
[redacted] B. Employer Contribution (22%) = (A x .22)	=	5,487
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F)	=	30,430
Total Other (from page 2)	=	13,200
Total Estimated Task Cost	=	43,630

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: TIBURON LABORATORY
#: 800 LABORATORY MANAGEMENT & SUPPORT - TIBURON
ent Yr Task #: 9WGN4080 GENERAL SUPPORT - TIBURON

Date: 03/21/95
Prior Yr Task #:
Task Leader: MACCALL

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
MAC CALL, ALEC D	15	00	83,926	50.0	41,963	/ /	/ /
MAVRANTONIS, ELAINE M	6	08	27,227	100.0	27,227	03/20/96	/ /
PETRAITIS, ADRIENNE J	5	04	22,617	100.0	22,617	02/06/96	/ /
SPURGEON, MARIE S	5	05	23,228	100.0	23,228	10/03/95	/ /
YOKOTA, ISSEI N	9	07	36,013	100.0	36,013	12/13/95	/ /

TOTAL FTE FTP POSITIONS= 4.500
TOTAL FTP SALARIES= 151,048

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	151,048
[redacted] B. Employer Contribution (22%) = (A x .22)	=	33,230
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

COMENTS:

Total Labor (sum of A thru F) = 184,278
Total Other (from page 2) = 29,900
Total Estimated Task Cost = 214,178

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 800 **Lab/Div:** **Page:** 1

Title: Laboratory Management & Support

Leader: A. MacCall

Budget:

Personnel: $214.7K Other Objects: $43.1 K Total: $257.8 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code_____ Code_____ Code_____ Code_____

2. NOAA Strategic Plan Elements Supported by CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

3. Legislation Supported by CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

4. "Our Living Oceans" Units Associated with CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

5. Fishery Management Plans Associated with CYOP

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

6. Facilities Where CYOPs Activities Take Place

Code:_____ Code:_____ Code:_____ Code:_____

Percent:_____ Percent:_____ Percent:_____ Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

Providing overall management and administration of both human and fiscal resources for the Tiburon Laboratory.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To adequately and efficiently support the research efforts.

b) To respond to requests from management in Tiburon and La Jolla.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Regular monitoring of operations and interviewing service customers.

3. Products/Services

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Scientists at our laboratory and Administration at Tiburon and La Jolla.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

Janitorial service and grounds maintenance.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: TIBURON LABORATORY
#: 811 GROUNDFISH ANALYSIS INVESTIGATION
ent Yr Task #: 8L1ARA85 IMPROVE FISH STOCK ASSESS

Date: 03/21/95
Prior Yr Task #:
Task Leader: LENARZ

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
LENARZ, WILLIAM H	14	00	79,509	100.0	79,509	/ /	/ /
ROBERTS, DALE A	9	02	31,012	100.0	31,429	05/15/95	/ /
SAKUMA, KEITH M	9	01	30,012	84.0	25,210	/ /	/ /

TOTAL FTE FTP POSITIONS= 2.840
TOTAL FTP SALARIES= 136,148

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	136,148
[redacted] B. Employer Contribution (22%) = (A x .22)	=	29,952
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

COMMENTS:

Total Labor (sum of A thru F)	=	**166,100**
Total Other (from page 2)	=	**200**
Total Estimated Task Cost	=	**166,300**

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: TIBURON LABORATORY
#: 811 GROUNDFISH ANALYSIS INVESTIGATION
ent Yr Task #: 8L1A3A84 ROCKFISH RECRUITMENT STUDY

Date: 03/21/95
Prior Yr Task #:
Task Leader: RALSTON

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
RALSTON, STEPHEN V	13	00	62,106	71.0	44,095	/ /	/ /

TOTAL FTE FTP POSITIONS= 0.710
TOTAL FTP SALARIES= 44,095

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	44,095
[redacted] B. Employer Contribution (22%) = (A x .22)	=	9,700
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

COMENTS:

Total Labor (sum of A thru F)	=	53,796
Total Other (from page 2)	=	6,900
Total Estimated Task Cost	=	60,696

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: TIBURON LABORATORY
#: 811 GROUNDFISH ANALYSIS INVESTIGATION
ent Yr Task #: 8L1C2A80 GROUNDFISH ANALYSIS INVEST

Date: 03/21/95
Prior Yr Task #:
Task Leader: LENARZ

	Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
U.	TIME PERMANENT & TERM EMPLOYEES:							
1	PEARSON, DONALD E	11	01	36,313	100.0	36,313	/ /	/ /
2	RALSTON, STEPHEN V	13	00	62,106	29.0	18,010	/ /	/ /
3	ROGERS, JEAN M	12	01	43,522	27.0	11,946	04/03/95	/ /
4	SAKUMA, KEITH M	9	01	30,012	16.0	4,801	/ /	/ /
5	WOODBURY, DAVID P	9	04	33,012	100.0	33,012	10/03/95	/ /

TOTAL FTE FTP POSITIONS= 2.720
TOTAL FTP SALARIES= 104,084

tal Salaries of FTP, PTP, and TERM EMPLOYEES		=	104,084
[redacted]	B. Employer Contribution (22%) = (A x .22)	=	22,898
tal Salaries of TEMPORARY EMPLOYEES		=	0
[redacted]	D. Leave Surcharge (18.3%) = (C x .183)	=	0
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)		=	0
emium Pay (Overtime, hazardous duty, night differential, etc.)		=	0

CONENTS:

Total Labor (sum of A thru F) = 126,982
Total Other (from page 2) = 40,000
Total Estimated Task Cost = 166,982

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 811 **Lab/Div:** Tiburon **Page:** 1

Title: Groundfish Analysis Investigation

Leader: William H. Lenarz

Budget:

Personnel: $346.9K Other Objects: $47.1K Total: $394.0K

ASSOCIATION ITEMS SECTION

.. **Agencies:** Code AKC Code CA DFG Code NWC Code PFMC

. NOAA Strategic Plan Elements Supported by CYOP

Code: T1A Code: T1C Code: T3C Code: T3D

Percent: 40 Percent: 40 Percent: 10 Percent: 10

. Legislation Supported by CYOP

Code: MA Code: Code: Code:

Percent: 100 Percent: Percent: Percent:

. "Our Living Oceans" Units Associated with CYOP

Code: 15 Code: Code: Code:

ercent: 100 Percent: Percent: Percent:

. Fishery Management Plans Associated with CYOP

ode: 27 Code: Code: Code:

ercent: 100 Percent: Percent: Percent:

. Facilities Where CYOPs Activities Take Place

ode: SWC3 Code: Code: Code:

ercent: 100 Percent: Percent: Percent:

1A. **Problem Statement** (What management or scientific problem does this CYOP help solve?)

This Investigation provides information needed to implement the groundfish management plan of the Pacific Fishery Management Council.

1B. **Objectives** (What are the major objectives being pursued by this CYOP?)

a) To obtain fishery dependent and independent data needed to assess and manage groundfish.

b) To improve assessment and management of groundfish.

c) To improve knowledge of recruitment process of groundfish.

2. **Methodology/Approach** (How are the objectives being approached:what are the tactics that are being applied?)

Collaborate with other agencies in collection and processing of fishery dependent and independent data. Use state-of-the-art assessment techniques and evaluate assessment and management with simulation models. Develop fishery independent biomass estimates such as YOY survey and larval production method. Collect oceanographic data in conjunction with surveys and develop models relating to abundance, survival and distribution of YOY with environmental factors.

3. **Products/Services**

Stock assessments are incorporated in the Counil's annual stock status document. Staff regularly publishes in peer-reviewed journals and administrative reports and presents talks at scientific meetings.

4. **Clients/Suppliers** (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

The main clients are the PFMC and its entities. Staff responds to request for information by the fishing industry and other scientists. We are dependent of west coast states, PacFIN, AKC, PFEG and various internet sources for data.

5. **Major Contracts** (List major contracts and provide approximate percentage of total contract costs to total budget)

Polish Sorting Center (sorting of ichthyoplankton) - 3%

6. **Justification:** (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Work plans are based on stated general needs of the PFMC, specific needs of the Groundfish Management Team, consultation with members of the scientific and fishing industry communities and direction by the SWC. The problem was chosen by the SWC.

7. **Linkages** (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

AKC Sandpoint Lab, NWC Newport Lab, PFEG, CDF&G, ODF&W, WDF&W, U.C. Davis, San Francisco State University, Moss Landing Laboratory and SWC La Jolla Lab.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1C2A80 8L1ARA85	A	1	Participate in groundfish monitoring program.	95	-
8L1C2A80 8L1ARA85	A	2	Continue work on management simulation models.	95	-
8L1C2A80 8L1ARA85	A	3	Participate in PFMC activities.	95	-
8L1C2A80 8L1ARA85 8L1A3A84	M	4	Conduct survey for juvenile rockfish.	5/95	6/95
8L1C2A80 8L1ARA85 8L1A3A84	M	5	Conduct field work on time effects on catches of rock fish larvae.	2/95	2/95
8L1C2A80 8L1ARA85	M	6	Complete manuscript on El Niño off central California.	12/95	12/95
8L1C2A80 8L1ARA85 8L1A3A84	E	7	Prepare section for Tiburon Lab annual progress in rockfish recruitment studies report.	4/95	4/95
8L1C2A80	A	8	Conduct studies on validation	95	-

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

8L1ARA85 of ageing technique.

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: TIBURON LABORATORY
#: 812 GROUNDFISH COMMUNITIES INVESTIGATION
ent Yr Task #: 8L1A3A81 GROUNDFISH COMMUNITIES

Date: 03/21/95
Prior Yr Task #:
Task Leader: HOBSON

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
ADAMS, PETER B	12	07	52,224	100.0	52,587	07/12/95	/ /
CHESS, JAMES R	12	08	53,675	100.0	54,521	03/08/95	/ /
HOBSON JR, EDMUND S	14	00	79,509	100.0	79,509	/ /	/ /
LAIDIG, TOM E	9	02	31,012	100.0	31,679	02/06/95	/ /
SILBERBERG, KELLY R	7	04	26,987	100.0	27,600	01/10/95	/ /

TOTAL FTE FTP POSITIONS= 5.000
TOTAL FTP SALARIES= 245,896

tal Salaries of FTP, PTP, and TERM EMPLOYEES	=	245,896
[redacted] B. Employer Contribution (22%) = (A x .22)	=	54,097
tal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
st of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
emium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F)	=	**299,993**
Total Other (from page 2)	=	**26,200**
Total Estimated Task Cost	=	**326,193**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC -812 **Lab/Div:** SWC3 **Page:** 1

Title: Groundfish Communities Investigation

Leader: Edmund S. Hobson

Budget:

Personnel: ~~$307.0K~~ $300.0 Other Objects: $ 26.2K Total: ~~$333.2K~~ 326.2

ASSOCIATION ITEMS SECTION

1. Agencies: Code CA DFG Code AKC Code PFMC Code_____

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T1C	Code: T3A	Code: T3C	Code: T3D
Percent: 20	Percent: 30	Percent: 30	Percent: 20

3. Legislation Supported by CYOP

Code: MFA	Code:_____	Code:_____	Code:_____
Percent: 100	Percent:_____	Percent:_____	Percent:_____

4. "Our Living Oceans" Units Associated with CYOP

Code: 12	Code: 15	Code: 21	Code:_____
Percent: 5	Percent: 75	Percent: 20	Percent:_____

5. Fishery Management Plans Associated with CYOP

Code: 27	Code:_____	Code:_____	Code:_____
Percent: 100	Percent:_____	Percent:_____	Percent:_____

6. Facilities Where CYOPs Activities Take Place

Code: SWC3	Code:_____	Code:_____	Code:_____
Percent: 100	Percent:_____	Percent:_____	Percent:_____

A. **Problem Statement** (What management or scientific problem does this CYOP help solve?)

Processes of natural change in the marine environment are poorly understood, and this lack of understanding seriously handicaps plans to manage the resources of this environment.

B. **Objectives** (What are the major objectives being pursued by this CYOP?)

a) To identify effects of environmental change on distributions, abundances and interspecific relations of groundfishes and related species.

b) To study the role of environmental change on interannual and spatial variations in recruitment success, with emphasis on that of Sebastes spp.

c) To assess the fishery for lingcod, an activity that contributes to its management and also to assessing effects on the community of harvesting this apex predator.

2. **Methodology/Approach** (How are the objectives being approached:what are the tactics that are being applied?)

Effects of environmental change are measured at established sites near shore and on the continental shelf and slope. Emphasis is on interspecific relations, especially between predator and prey, and on relative success of recruitment. Regular assessments are made with a variety of sampling devices and by visual observations where feasible. Trophic relations are determined by visual observations and study of diets, with reports of results undergoing rigorous peer review. To maintain awareness of current management problems, the Investigation includes study of the fishery for lingcod and is charged with preparing the PFMC stock assessment document for that species.

3. **Products/Services**

Major products are published papers, reports and stock assessment documents presented to the Pacific Fishery Management Council.

4. **Clients/Suppliers** (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Clients include fishery managers, Pacific Fishery Management Council, researchers and others with need to understand, or have interest in, the dynamics of marine ecosystems, particularly those of the U.S. Pacific Coast.

5. **Major Contracts** (List major contracts and provide approximate percentage of total contract costs to total budget)

No major contracts.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

This problem was addressed because it is recognized to be a weakness of many if not most fishery management plans adopted by the Pacific Fishery Management Council. The Investigation represents elements of the NOAA Strategic Plan (T1C, T3A, T3C and T3D), a legislative mandate (MFA), and the FMP for Pacific Coast groundfish.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

Activities involve collaboration with the state fisheries agencies of California, Oregon and Washington: The Santa Catalina Marine Science Center; the University of California; and other NMFS facilities, particularly Alaska Fisheries Science Center.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

8L1A3A81	A	1	Assess 1995 year-classes of Sebastes spp., based on visual counts and occurrences in predator diets.	5/95-9/95
"	M	2	Produce assessment of 1994 year class of Sebastes spp. for Recruitment Report.	3/95
"	A	3	Investigate influence of trophic relations on recruitment success of blue rockfish.	Ongoing
"	A	4	Monitor long-term changes in coastal communities.	Ongoing
"	A	5	Analyze ecological relations of deep-slope groundfishes, with emphasis on habitat and food.	Ongoing
"	A	6	Analyze species composition and length frequencies of deep-slope groundfishes.	Ongoing

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
"	M	7	Produce ms on trophic relations of sablefish.		1/95
"	A	8	Investigate age and growth of lingcod.	Ongoing	
"	A	9	Coordinate port sampling of lingcod in California and Oregon.	Ongoing	

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: TIBURON LABORATORY
COE#: 813 GROUNDFISH PHYSIOLOGICAL ECOLOGY
Current Yr Task #: 8L1A3A82 GROUNDFISH PHYS ECOL INVEST

Date: 03/21/95
Prior Yr Task #:
Task Leader: ELDRIDGE

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
FULL TIME PERMANENT & TERM EMPLOYEES:							
[redacted]OWERS, MICHAEL J	9	04	33,012	100.0	33,929	11/15/94	/ /
[redacted]LDRIDGE, MAXWELL B	13	00	66,422	100.0	66,422	/ /	/ /
[redacted]ARVIS, BRIAN M	9	08	37,013	100.0	37,013	03/06/96	/ /
[redacted]ACFARLANE, ROBERT B	12	09	55,125	100.0	55,125	02/21/96	/ /
SL[redacted]ORTON, ELIZABETH C	9	01	30,012	100.0	30,012	02/07/95	/ /

TOTAL FTE FTP POSITIONS= 5.000
TOTAL FTP SALARIES= 222,501

[redacted]otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	222,501
[redacted] B. Employer Contribution (22%) = (A x .22)	=	48,950
[redacted]otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
[redacted]ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
[redacted]remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

COMMENTS:

Total Labor (sum of A thru F) =	**271,451**
Total Other (from page 2) =	**25,200**
Total Estimated Task Cost =	**296,651**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 813 **Lab/Div:** SWC3 **Page:** 1

Title: Groundfish Physiological Ecology

Leader: Maxwell B. Eldridge

Budget:

Personnel: ~~$299.5K~~ 271.5 Other Objects: $ 25.2K Total: ~~$324.2K~~ 296.7

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code SWC3 Code_____ Code_____ Code_____

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code: T1C Code: T1A Code: T2A Code:_____

Percent: 55 Percent: 40 Percent: 5 Percent:_____

3. **Legislation Supported by CYOP**

Code: MA Code: ESA Code:_____ Code:_____

Percent: 95 Percent: 5 Percent:_____ Percent:_____

4. **"Our Living Oceans" Units Associated with CYOP**

Code: 15 Code: 12 Code:_____ Code:_____

Percent: 95 Percent: 5 Percent:_____ Percent:_____

5. **Fishery Management Plans Associated with CYOP**

Code: 27 Code:_____ Code:_____ Code:_____

Percent: 100 Percent:_____ Percent:_____ Percent:_____

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC3 Code:_____ Code:_____ Code:_____

Percent: 100 Percent:_____ Percent:_____ Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

Fisheries managers need to understand how natural environmental factors, inherent life history traits, and management decisions can affect the persistence of fish stocks. This Task examines functional relationships between fishes and their host environments. Research consists of multidisciplinary, integrated studies designed to determine the inherent and environmental factors affecting condition and health, growth, behavior, and reproduction in important groundfishes and endangered species.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To understand, describe and explain how fish respond to changes in their habitats, their capacity to adapt, and the implications these interactions have for management.

b) To contribute to the assessment of groundfish stocks, evaluate their health and condition and reproductive potential, and forecast recruitment.

c) To determine the habitat utilization and the physiological adaptive capacity of outmigrating juvenile chinook salmon in the San Francisco Bay-Delta estuary.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Groundfish research consists of A) in-depth field and experimental studies on physiological condition and reproduction of yellowtail rockfish (Sebastes flavidus) and shortbelly rockfish (S. jordani), and B) field surveys and laboratory analyses of rockfish larval and YOY juvenile growth and survival in relation to recruitment potential. Activities include comprehensive examinations and analyses of all life stages (eggs, embryos, larvae, juveniles, subadults, and adults). Studies emphasize reproductive output and nutritional states with ultimate connection to larval and YOY juvenile viability and recruitment. Long-term biological databases allow determination of interannual variability and their relationships with environmental variables.

Salmon research is comprised of estuarine field surveys to collect outmigrating juvenile chinook salmon specimens and environmental data for habitat characterization. Laboratory analyses will help determine salmon physiological ecology (e.g., growth and condition, nutritional energy status, contaminant accumulation, food and feeding) and habitat utilization and requirements.

(continued)

3. Products/Services

Products of this research include written scientific reports and manuscripts, presentation at scientific meetings, conferences, lectures, and seminars. Products will contribute to understanding of the causes of fishery resource variability in abundance and distribution and efficient conservation and management. Secondary outcomes are expected to provide management an efficient means to monitor health and condition of stocks, measure reproductive output, estimate recruitment potential, and predict possible effects of management decisions and environmental conditions.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Primary user of the research products are managers of the PMFC and other elements concerned with the groundfish fishery and groundfish habitat. The SWR managers and decision-makers of endangered salmon species and their habitat utilization and requirements will benefit. Other users include researchers and fishery managers who need to know what environmental and management factors influence fish growth, health, survival and reproduction.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

$ 2.2K for vessel charter
5.0K for groundfish ageing
0.6K for histology

Contracts are 2% of total budget.

6. **Justification:** (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Magnuson Act for groundfish research.
Endangered Species Act for salmon research.

7. **Linkages** (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)
•Northwest Fisheries Science Center and Alaska Fisheries Science Center - collaboration with triennial cruises and endangered species contaminant research.
•California Department of Fish and Game - cooperative studies in San Francisco Bay-Delta estuary; contaminant research.
•University of California Bodega Marine Laboratory - experimental facilities; collaborative studies with endangered species.
•This CYOP is coordinated with Tiburon Lab CYOP 821.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
3L1A3A82	A	1	Monitor physiological conditions and determine reproductive states and fecunditieis of yellowtail rockfish and shortbelly rockfish.	10/94	Ongoing
"	M	2	Present results on shortbelly rockfish early life stage condition at 1994 CalCOFI Conference.		11/94
"	A	3	Prepare study plan for juvenile chinook salmon in San Francisco Bay-Delta.	12/94	3/95
"	A	4	Conduct laboratory experiements on yellowtail rockfish for larval growth, survival and energetics.	12/94	4/95
"	A	5	Conduct DSJ cruises to collect shortbelly rockfish specimens for egg quality and larval and YOY juvenile condition studies.	2/95	Ongoing

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

"	M	6	Publish manuscripts on: •matrotrophic viviparity •nutritional energetics of yellow-tail rockfish reproduction •fecundity of yellowtail rockfish		9/95
"	A	7	Conduct field surveys of juvenile chinook salmon in San Francisco Bay-Delta estuary.	5/95	Ongoing
"	M	8	Prepare annual rockfish recruitment report.	5/95	
"	A	9	Conduct laboratory experiments on YOY juvenile rockfish for growth, survival and energetics.	7/95	Ongoing
"	M	10	Make presentation at 1995 Larval Fish Conference.	6/95	
"	E	11	Prepare manuscript drafts on: •lipid class composition in yellowtail rockfish during reproduction •yellowtail rockfish early life stage development •shortbelly rockfish reproductive life history	9/95	
"	E	12	Prepare preliminary summary of juvenile chinook salmon study.	9/95	
"	M	13	Make presentations at 1995 AFS Annual Meeting, Tampa, FL.	8/95	

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: TIBURON LABORATORY
PI: 821 FISHERY MANAGEMENT ADVISORY
Prior Yr Task #: 8L1C3A83 FISHERY MANAGEMENT ADVISORY

Date: 03/21/95
Prior Yr Task #:
Task Leader: MACCALL

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
FULL TIME PERMANENT & TERM EMPLOYEES:							
1. POPE, ROBERT G	12	04	47,873	7.7	3,788	11/15/94	/ /
2. MAC CALL, ALEC D	15	00	83,926	50.0	41,963	/ /	/ /
3. RAGER, MICHAEL H	13	09	65,552	50.0	32,776	/ /	/ /
4. OGERS, JEAN M	12	01	43,522	73.0	32,300	04/03/95	/ /
5. ILEY, NANCY K	11	09	45,998	100.0	46,099	09/20/95	/ /
TOTAL FTE FTP POSITIONS= 2.807							
TOTAL FTP SALARIES= 156,926							
PART TIME PERMANENT & TERM EMPLOYEES:							
1. RUVELAS, PENNY	5	01	19,807	20.0	3,953	06/26/95	/ /
TOTAL FTE PTP POSITIONS= 0.200							
TOTAL PTP SALARIES= 3,953							

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	160,880
[redacted] B. Employer Contribution (22%) = (A x .22)	=	35,393
Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	2,000

COMMENTS:

Total Labor (sum of A thru F) = 198,274
Total Other (from page 2) = ~~39,000~~ 254.6
Total Estimated Task Cost = ~~236,874~~
452.9

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 821 **Lab/Div:** SWC3 **Page:** 1

Title: Fishery Management Advisory

Leader: Alec D. MacCall

Budget:

Personnel: $198.5K Other Objects: $254.4K Total: $452.9K

ASSOCIATION ITEMS SECTION

1. Agencies: Code PFMC Code SWR Code CA DFG Code EPA

2. NOAA Strategic Plan Elements Supported by CYOP

Code:	T1A	Code:	T2A	Code:	T2C	Code:	T3A
Percent:	45	Percent:	35	Percent:	10	Percent:	10

3. Legislation Supported by CYOP

Code:	MA	Code:	AFA	Code:	ESA	Code:	
Percent:	55	Percent:	15	Percent:	30	Percent:	

4. "Our Living Oceans" Units Associated with CYOP

Code:	15	Code:	14	Code:	12	Code:	
Percent:	45	Percent:	5	Percent:	50	Percent:	

5. Fishery Management Plans Associated with CYOP

Code:	27	Code:	25	Code:	23	Code:	
Percent:	45	Percent:	50	Percent:	5	Percent:	

6. Facilities Where CYOPs Activities Take Place

Code:	SWC3	Code:		Code:		Code:	
Percent:	100	Percent:		Percent:		Percent:	

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

Provide decision-makers with fishery and resource management advice.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To provide clients with timely and accurate forecasts and stock/resource assessments.

b) To provide clients with timely and accurate analyses of resource behavior and evaluation of alternative actions.

c) To provide SWR with salmon information, including life cycle, models, habitat evaluations, and statistical analyses of problematic data.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Computer modeling and statistical analysis. Logistic support of San Francisco Bay juvenile salmon studies (cross reference CYOP 813).

3. Products/Services

Stock assessments, forecasts, models, statistical evaluations.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Pacific Fishery Management Council, NMFS SWFSC, NMFS SWR.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

Contracts to federal and state agencies are needed for analysis of metals and organic contaminants in salmon juveniles. A private or university contract is needed for daily ageing of juvenile salmon otoliths for birthdate determination. (11% of total budget.) Also, NRC radioactive materials license.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Output is in direct support of FCMA and ESA, and supplies information vital to decision-making.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

Project is coordinated through PFMC and SWR to linkages with all west coast state and federal laboratories. This CYOP is also coordinated with another Tiburon Lab program, CYOP 813.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1C3A84	M	1	Multispecies evaluation of rockfish complex.		6/95
8L1C3A84	M	2	Stock assessment of short-belly rockfish.		6/95
8L1C3A84	A	3	Participate on Winter-Run Chinook Recovery Team and Winter-Run Chinook Captive Breeding Committee.	Ongoing	
"	A	4	Participate on Klamath River Mgmt Council's Technical Team; provide projections of run sizes and analysis of salmon management options.	Ongoing	
"	M	5	Submit report of SWFSC ground-fish research to Canada-U.S. Groundfish Treaty Technical Subcommittee.		5/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

(continued)

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L1C3A84	A	6	Support and coordinate SWFSC groundfish research as groundfish coordinator.	Ongoing	
"	A	7	Participate in EPA/ACOE Long Term Mgmt Strategy Program for disposal of materials dredged from San Francisco Bay.	Ongoing	
"	A	8	Review fishery stock assessments and analyses; participate in annual Ad Hoc Groundfish Workshop.	Ongoing	
"	E	9	Co-convene PICES Symposium on carrying capacity of the North Pacific.		10/95
8L1C3A84 "FIMAT" salmon	A	10	Maintain liaison with agencies, industry and interested groups.	Ongoing	
"FIMAT" salmon "SWR" salmon	A	11	Support study of outmigrating juvenile salmon in San Francisco Bay.	Ongoing	
"FIMAT" salmon	E	12	Hire and develop staff of expanded salmon program.	1/95	5/95

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

a/Div: PFEG
YP #: 901 FISHERIES OCEANOGRAPHY AND ECOSYSTEMS
rent Yr Task #: 8L1C5B90 FISHERY OCEANOGRPHY & ECOSY

Date: 03/21/95
Prior Yr Task #:
Task Leader: BOEHLERT

	Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
U	TIME PERMANENT & TERM EMPLOYEES:							
1	BOEHLERT, GEORGE W	15	00	83,866	100.0	83,866	/ /	/ /
2	LUTHY, RENE M	5	01	18,907	100.0	18,907	/ /	01/22/95
3	TROIAN, ROSEMARY A	7	09	29,662	8.3	2,461	11/27/96	/ /
	TOTAL FTE FTP POSITIONS= 2.083							
	TOTAL FTP SALARIES= 105,234							
A	TIME PERMANENT & TERM EMPLOYEES:							
1	NICHOLS, COLLEEN M	7	02	24,199	75.0	18,441	04/17/95	/ /
	TOTAL FTE PTP POSITIONS= 0.750							
	TOTAL PTP SALARIES= 18,441							
E	PORARY EMPLOYEES:							
1	DIXON, CAROL A	5	01	18,907	4.3	813	/ /	11/11/94
	TOTAL FTE TEMP POSITIONS= 0.043							
	TOTAL TEMP SALARIES= 813							

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	123,676
[redacted] B. Employer Contribution (22%) = (A x .22)	=	27,208
Total Salaries of TEMPORARY EMPLOYEES	=	813
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	148
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MENTS:

Total Labor (sum of A thru F)	=	**151,847**
Total Other (from page 2)	=	**210,400**
Total Estimated Task Cost	=	**362,247**

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Lab/Div: PFEG
TY? #: 901 FISHERIES OCEANOGRAPHY AND ECOSYSTEMS
Current Yr Task #: 8L1C5B91 FISHERY ENVIRONMENT

Date: 03/21/95
Prior Yr Task #:
Task Leader: PARRISH

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
FULL TIME PERMANENT & TERM EMPLOYEES:							
PARRISH, RICHARD H	14	00	75,894	100.0	75,894	/ /	/ /
YOKLAVICH, MARY M	11	04	38,129	100.0	38,129	02/20/96	/ /
TOTAL FTE FTP POSITIONS= 2.000							
TOTAL FTP SALARIES= 114,023							
PART TIME PERMANENT & TERM EMPLOYEES:							
MASON, JANET E	9	03	30,557	80.0	24,827	04/03/95	/ /
TOTAL FTE PTP POSITIONS= 0.800							
TOTAL PTP SALARIES= 24,827							

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	138,850
[redacted] B. Employer Contribution (22%) = (A x .22)	=	30,547
Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

COMMENTS:

Total Labor (sum of A thru F)	=	**169,397**
Total Other (from page 2)	=	**7,600**
Total Estimated Task Cost	=	**176,997**

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: PFEG
CYP #: 901 FISHERIES OCEANOGRAPHY AND ECOSYSTEMS
Current Yr Task #: 8L1C5B92 FISHERY CLIMATOLOGY

Date: 03/21/95
Prior Yr Task #:
Task Leader: MENDELSSOHN

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
MENDELSSOHN, ROY	14	00	70,058	100.0	70,058	/ /	/ /

TOTAL FTE FTP POSITIONS= 1.000
TOTAL FTP SALARIES= 70,058

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	70,058
[redacted] B. Employer Contribution (22%) = (A x .22)	=	15,412
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

COMMENTS:

Total Labor (sum of A thru F)	=	**85,470**
Total Other (from page 2)	=	**7,300**
Total Estimated Task Cost	=	**92,770**

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

Div: PFEG
#: 901 FISHERIES OCEANOGRAPHY AND ECOSYSTEMS
ent Yr Task #: 8L1C5B93 PHYSICAL OCEANOGRAPHY

Date: 03/21/95
Prior Yr Task #:
Task Leader: HUSBY

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
TIME PERMANENT & TERM EMPLOYEES:							
HUSBY, DAVID M	13	00	57,633	25.0	14,408	/ /	/ /
NORTON, JERROLD G	12	06	48,466	100.0	49,620	12/27/94	/ /
SCHWING, FRANKLIN B	13	00	54,340	100.0	54,340	/ /	/ /
VACANT, VICE HUSBY	12	00	0	0.0	0	/ /	/ /

TOTAL FTE FTP POSITIONS= 2.250
TOTAL FTP SALARIES= 118,368

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	118,368
[redacted] B. Employer Contribution (22%) = (A x .22)	=	26,041
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

COMENTS:

Total Labor (sum of A thru F)	=	**144,409**
Total Other (from page 2)	=	**7,800**
Total Estimated Task Cost	=	**152,209**

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

/Div: PFEG
#: 901 FISHERIES OCEANOGRAPHY AND ECOSYSTEMS
rent Yr Task #: 8L1C1C94 IT-95 - PFEG

Date: 03/21/95
Prior Yr Task #:
Task Leader: BOEHLERT

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
, TIME PERMANENT & TERM EMPLOYEES:							
MERCER, PAULA	11	10	45,063	100.0	45,063	/ /	/ /

TOTAL FTE FTP POSITIONS= 1.000
TOTAL FTP SALARIES= 45,063

otal Salaries of FTP, PTP, and TERM EMPLOYEES	=	45,063
[redacted] B. Employer Contribution (22%) = (A x .22)	=	9,913
otal Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
ost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
remium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

COMMENTS:

Total Labor (sum of A thru F)	=	**54,976**
Total Other (from page 2)	=	**0**
Total Estimated Task Cost	=	**54,976**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 901 **Lab/Div:** PFEG **Page:** 1

Title: **Fisheries Oceanography and Ecosystems**

Leader: **G. Boehlert**

Budget:
Personnel: ~~$605.8~~ 606.1 K Other Objects: ~~$158.1~~ 233.1 K Total: ~~$763.6~~ 839.2 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code NOAA Code NMFS Code NESDIS Code CA DFG

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T1C Code: T1G Code: T3C Code: T3D

Percent: 50 Percent: 20 Percent: 10 Percent: 20

3. Legislation Supported by CYOP

Code: MA Code: MFA Code: IFA Code: ESA

Percent: 40 Percent: 40 Percent: 10 Percent: 10

4. "Our Living Oceans" Units Associated with CYOP

Code: 99 Code: 18 Code: 15 Code: 14

Percent: 40 Percent: 20 Percent: 20 Percent: 20

5. Fishery Management Plans Associated with CYOP

Code: 99 Code: 34 Code: 27 Code: 23

Percent: 50 Percent: 20 Percent: 20 Percent: 10

6. Facilities Where CYOPs Activities Take Place

Code: SWC4 Code: _____ Code: _____ Code: _____

Percent: 100 Percent: _____ Percent: _____ Percent: _____

1A. Problem Statement

Natural variability in physical and biological systems interacts with effects of human actions in controlling the dynamics of fishery resource populations. The Pacific Fisheries Environmental Group conducts research to improve the understanding of causes of variability in marine ecosystems at varied time and space scales and works to apply this knowledge to practical problems in marine resources.

1B. Objectives

a) To specify linkages of environmental processes to population dynamics of important fish stocks and the ecosystems that support them.

b) To develop the means to effectively forecast effects of environmental variations (including global climate change) and oceanographic processes on availability of fish and on resilience of fish populations to exploitation.

c) To provide appropriate environmental data and information to other fishery scientists and managers

2. Methodology/Approach

An integrated, interdisciplinary approach addresses these problems at varying time and space scales and includes i) diagnostic studies of ecological anomalies, ii) identification of causal linkages between the environment and biological variability, and iii) development of fishery modelling methodology incorporating environmental factors. Environmental and biological time series are developed, verified, and evaluated. The research is international in scope.

3. Products/Services

Scientific publications and technical reports are disseminated through the scientific literature. PFEG also compiles, updates, and distributes selected environmental data products of utility to fisheries and oceanographic researchers throughout the world.

4. Clients/Suppliers

PFEG data products are used by government, academic, and private sector researchers in support of resource- and oceanographic-related research. Scientific manuscripts are used by other researchers, government scientists and managers, regulatory agencies, and others interested in the effects of the environment on ecosystems and marine resources.

5. Major Contracts

Contracts include computer services, janitorial services, and maintenance and represent approximately 5.2% of the PFEG budget.

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

This research program is based upon several component parts of the NOAA Strategic Plan, including Advancing Fishery Predictions, UNCED activities, Coastal Ecosystems, and Decadal to Centennial Changes. The priority of the research is determined by its contribution to long-term improvements in understanding the role of environmental variability on marine ecosystems.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

Collaborative research is undertaken with other NMFS and NOAA scientists, including within the SWFSC, academic scientists, the California Department of Fish and Game, and international scientists (countries including Mexico, Chile, France, Germany, and several African nations). PFEG data products are routinely provided to NOAA scientists, including at all NMFS Centers, other government agencies, academic scientists, and international scientists. Extensive coordination with the U.S. Navy's Fleet Numerical Meteorology and Oceanography Center promotes dual use of environmental data bases.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

8L1C5B90	E	1.Coordinate move of PFEG to permanent facilities in Pacific Grove.	
8L1C5B90	M	2.Complete NOAA Tech Memo on vertical distribution of ichthyoplankton around Oahu (with CYOP 731).	Mar
8L1C5B90	E	3.Complete NOAA Tech Memo on spatial distribution of insular zooplankton around Oahu.	May
8L1C5B90	E	4.Draft of review manuscript on the effects of marine fisheries on biodiversity.	Aug
8L1C5B90	A	5.As opportunities allow, explore developing research on ocean survival of salmon in collaboration with NWC scientists.	

8L1C5B90	A	6.Promote cooperation with the Navy and sharing of computer data bases and resources.
8L1C5B91	E	7.Present CalCOFI paper, "Pacific Sardine - A case against sustainable development". Oct
8L1C5B91	M	8.Present Ed Ricketts Memorial Lecture, "Sardine" at WSN Meeting. Dec
8L1C5B91	E	9.Complete final report to Sea Grant, "Importance of transport processes in recruitment of rockfishes." Dec
8L1C5B91	E	10.Complete co-authored manuscript for CalCOFI reports. " Condition factor and gonadal index variations in blue rockfish." Jan
8L1C5B91	E	11.Present invited paper and co-convene UBC Workshop on Impact of Climate Changes in the North Pacific. Mar
8L1C5B91	M	12.Complete manuscript "Environmental Control of Regime Variations in the Japanese Sardine." Apr
8L1C5B91	E	13.Present paper at Tuna Conference. "Climatic Control of the North Pacific Albacore Population." May
8L1C5B91	E	14.Complete manuscript for CEOS Book "Life history strategies for the late Holocene." July
8L1C5B91	E	15.Submit co-authored manuscript "Interannual variability in growth of larval and juvenile walleye pollock." July
8L1C5B91	M	16.Submit paper on time series of rockfish species composition for publication. Feb
8L1C5B91	E	17.Submit final report to NURP, "The importance of small-scale refugia to deepwater rockfishes." Mar
8L1C5B91	E	18.Complete manuscript "Analysis of deepwater rockfish assemblages and habitat in Soquel Submarine Canyon."Sep
8L1C5B92	A	19.Edit papers for the volume from the Climate and Eastern Ocean Systems meeting.
8L1C5B92	E	20.Present talk at AGU on increasing upwelling in the California Current, (with 8L1C5B93) Dec
8L1C5B92	E	21.Present talk at International Statistical Climatology Meeting on State-space models and applications for studying climate change. June
8L1C5B92	M	22.Submit paper on intensification of upwelling in the California Current System (with 8L1C5B93) June

8L1C5B92	E	23.Complete draft of co-authored paper on new methods for analyzing change in environmental time-series for CEOS volume. June
8L1C5B92	E	24.Complete draft of co-authored paper for CEOS volume comparing trends for several oceanographic parameters in the major upwelling regions. June
8L1C5B92	E	25.Resubmit paper on state-space techniques for estimating fish abundance from surveys. May
8L1C5B92	E	26.Resubmit paper on nonlinear effects of environment on fish. June
8L1C5B92	E	27.Produce database system for the COADS Release 1a dataset. Mar
8L1C5B92	A	28.Develop (via contract) DOS version of the CODE (COADS data access) program.
8L1C5B93	M	29.Convene CalCOFI Symposium on the 1991-92 El Niño and its Impact on Fisheries (with CYOP 811). Oct
8L1C5B93	M	30.Completion of manuscript "The Response of the California Current System to the 1991-94 El Niño" for CalCOFI Reports (with CYOP 304). Jan
8L1C5B93	M	31.Completion of manuscript "Recent trends in the spatial variability of the SST and wind fields of the California Current" for CEOS Volume (w/8L1C5B92). Feb
8L1C5B93	A	32.Investigation of mean and time-varying mesoscale circulation off central California and its influence on groundfish recruitment (with Tiburon).
8L1C5B93	A	33.Maintain and analyze CTD and ADCP data base from Tiburon groundfish surveys.
8L1C5B93	A	34.Analysis of temporal and spatial variability of coastal wind, sea level, temperature and salinity time series (w/8L1C5B92).
8L1C5B93	M	35.Complete manuscript on effects of the environment on relative first year success in rockfish. July
8L1C5B93	E	36.Complete transfer of FNOC archives to PFEG mass storage.
8L1C5B93	A	37.Continue and update monthly processing and distribution of standard PFEG products and data bases, including upwelling index.

8L1C5B93	A	38.Preparation of tech memos on groundfish survey hydrographic and ADCP data-- 1994,1995 (w/Tiburon).
8L1C5B93	E	39.Assemble upwelling index time series for state - space analysis. Aug
8L1C5B94	M	40.Installation and testing of IT-95 server. Mar
8L1C5B94	A	41.Develop and monitor contract for conversion of PFEG routine products processing to the IT-95 server. Jan
8L1C5B94	A	42.Facilitate use of IT-95 system by users from PFEG and Tiburon. May

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

/Div: HONOLULU LABORATORY
P #: 100 WESTPACFIN
rent Yr Task #: 8L1B1NPF WPACFIN

Date: 03/21/95
Prior Yr Task #:
Task Leader: HAMM

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
L TIME PERMANENT & TERM EMPLOYEES:							
LUM, HENRY K	7	03	24,231	100.0	24,799	01/23/95	01/25/96
TOTAL FTE FTP POSITIONS= 1.000							
TOTAL FTP SALARIES= 24,799							
PORARY EMPLOYEES:							
CHAN, NATHAN T	1	01	11,903	25.0	2,975	/ /	12/19/94
MACHADO, WALTER A	5	01	18,340	58.3	10,692	/ /	04/17/95
SO, LAWRENCE M	1	01	11,903	25.0	2,975	/ /	12/19/94
TOTAL FTE TEMP POSITIONS= 1.083							
TOTAL TEMP SALARIES= 16,643							

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	24,799
[redacted] B. Employer Contribution (22%) = (A x .22)	=	5,455
Total Salaries of TEMPORARY EMPLOYEES	=	16,643
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	3,045
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	9,324
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MMENTS:

Total Labor (sum of A thru F)	=	**59,268**
Total Other (from page 2)	=	**0**
Total Estimated Task Cost	=	**59,268**

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

/Div: MARINE MAMMAL DIVISION
P #: 102 MMPA MOLEC. ANALYSIS...GENE FLOW
rent Yr Task #: 8L1A5M56 MMPA MOL. ANALYS..GENE FLOW

Date: 02/10/95
Prior Yr Task #:
Task Leader: DIZON

	Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
L TIME PERMANENT & TERM EMPLOYEES:								
1	COSTA, ADRIAN S	7	01	23,598	100.0	23,598	/ /	/ /
2	LUX, CRISTI A	5	01	19,052	100.0	19,052	/ /	12/12/96
3	TAYLOR, BARBARA L	12	01	41,862	100.0	42,443	05/01/95	05/01/97

TOTAL FTE FTP POSITIONS= 3.000
TOTAL FTP SALARIES= 85,093

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	85,093
[redacted] B. Employer Contribution (22%) = (A x .22)	=	18,720
Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0
Total Labor(sum of A thru F)	=	**103,813**

MMENTS:

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

ICS

/Div: HONOLULU LABORATORY
OP #: ~~164~~ COASTWATCH HONOLULU
rent Yr Task #: ~~8K3C0100~~ COASTWATCH-HONOLULU 8,42B,2,5,1,1,0

Date: 02/10/95
Prior Yr Task #:
Task Leader: LAURS

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
L TIME PERMANENT & TERM EMPLOYEES:							
MOTELL, CRAIG E	11	02	34,744	100.0	34,744	/ /	/ /

TOTAL FTE FTP POSITIONS= 1.000
TOTAL FTP SALARIES= 34,744

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	34,744
[redacted] B. Employer Contribution (22%) = (A x .22)	=	7,643
Total Salaries of TEMPORARY EMPLOYEES	=	0
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	0
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	7,817
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0
Total Labor(sum of A thru F)	=	**50,205**

MMENTS:

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

/Div: COASTAL FISHERIES RESOURCES DIVISION
P #: [redacted] COASTWATCH-LA JOLLA
rent Yr Task #: 8K3C4C00 COASTWATCH-LA JOLLA

Date: 02/10/95
Prior Yr Task #:
Task Leader: LYNN

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
PORARY EMPLOYEES:							
COSGROVE III, RICHARD E	7	01	23,598	75.0	17,698	/ /	06/28/95

TOTAL FTE TEMP POSITIONS= 0.750
TOTAL TEMP SALARIES= 17,698

No plan infomation fu cosgrove

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	0
[redacted] B. Employer Contribution (22%) = (A x .22)	=	0
Total Salaries of TEMPORARY EMPLOYEES	=	17,698
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	3,238
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0
Total Labor(sum of A thru F)	=	**20,937**

MMENTS:

SOUTHWEST FISHERIES SCIENCE CENTERs
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC-108 **Lab/Div:** Honolulu **Page:** 1

Title: Marine Mammal Add-ons HI MONK SEAL

Leader: Tim Ragen

Budget:

Personnel: Other Objects: $495.0K Total: $495.0K

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code MMC* Code USFWS Code NBS* Code WPFMC

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code: T2A	Code: T2C	Code: T2B	Code: T3D
Percent: 50	Percent: 40	Percent: 5	Percent: 5

3. **Legislation Supported by CYOP**

Code: ESA	Code: MMPA	Code:	Code:
Percent: 50	Percent: 50	Percent:	Percent:

4. **"Our Living Oceans" Units Associated with CYOP**

Code: 23	Code: 16	Code: 17	Code:
Percent: 90	Percent: 5	Percent: 5	Percent:

5. **Fishery Management Plans Associated with CYOP**

Code: 30	Code: 32	Code: 34	Code:
Percent: 10	Percent: 10	Percent: 10	Percent:

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC2	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

The Hawaiian monk seal is the most endangered pinniped in U.S. waters and, with its two congeners, has declined severely due to human activities. The Caribbean species is now thought to be extinct, the Mediterranean species is on the verge of extinction, and the Hawaiian monk seal numbers approximately 1400 and has been declining at 5% per year for the last decade. The problem, therefore, is the rapid and unnatural decline of this protected marine mammal.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

Whereas "base" funds were directed primarily toward assessment of various problems at the main reproductive populations, addon funds are directed both at assessment activities and, importantly, at recovery activities. These activities are limited in number, but critical to the recovery of this species, and include 1) rehabilitation and translocation of undersized immature seals, 2) correction of adult sex ratios and assessment of the effects of such corrective actions, and 3) disentanglement of seal entangled in marine debris.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Extensive reproductive potential is being lost at French Frigate Shoals due to the high mortality of young females. To mitigate this loss, we are focusing on the capture, rehabilitation, and relocation of undersized weaned female pups. The pups are brought to Oahu for 8-10 months of captive care, during which time they learn to feed independently, are monitored and treated for health and disease problems, and are brought to good condition so that they can be released into depleted populations in need of enhancement (i.e., at Kure and Midway Atolls).

Reproductive potential is also being lost due to mobbing at Laysan and Lisianski Islands. In 1994, we removed 22 adult males from Laysan Island to normalize the adult sex ratio and reduce the incidence of mobbing. In 1995, it is critical that the Laysan population be monitored to determine if, in fact, the removal had the intended effect.

Finally, each year a number of Hawaiian monk seals are caught and entangled in marine debris. To prevent the loss of seals due to entanglement, biologists at the field sites both disentangle seals caught in debris, and clean the island beaches of potentially entangling debris.

3. Products/Services

a) Recovery (or salvaging) of reproductive potential that would otherwise be lost due to high juvenile mortality.
b) Enhancement of depleted population of rehabilitated immature females.

c) Mitigation of the effects of mobbing through correction of sex ratio imbalances
d) Publications on the methods and success of rehabilitation and and other recovery activities.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)
a) National Marine Fisheries Service (Honolulu Laboratory, Southwest Fisheries Science Center, Southwest Region, Headquarters)
b) Marine Mammal Commission
c) Hawaiian Monk Seal Recovery Team
d) Fish and Wildlife Service (Hawaiian Islands National Wildlife Refuge)

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)
a) Joint Institute of Marine and Atmospheric Research (33%)

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

The activities under this CYOP are clearly justified by Goal 4 of the Strategic Plan of the National Marine Fisheries, and by the Endangered Species Act and the Marine Mammal Protection Act. The Hawaiian monk seal is the most endangered pinniped in U.S. waters; it numbers approximately 1400 and is declining rapidly. Furthermore, much of its recent decline can be attributed to human activities. Therefore, its recovery is (and should be) of highest priority.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

a) Southwest Region, NMFS: collaborates on management activities, particularly those related to management of human activities that affect monk seals.

b) Fish and Wildlife Service, Hawaiian Islands National Wildlife Refuge: assumes primary responsibility for protection of land habitat; also collaborates on logistics and support activities for field studies.

c) National Biological Survey, National Wildlife Health Center, Honolulu Field Station: collaborates on issues related to health and disease of monk seals, and on captive care of seals undergoing rehabilitation and relocation. Agency provides a veterinary pathologist that performs necropsies, consults on captive care, review protocols, and analyzes data.

d) NOAA RV *Townsend Cromwell*: provides logistical support for field research.

e) Coast Guard: collaborates with logistics (transport of seals and biologists), and protection of habitat (enforcment of fishery regulations to minimize monk seal/fishery interactions).

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
8L2BE RMS	A	1	Rehabilitate and relocate undersized immature females from French Frigate Shoals.	10/94	9/95
	A	2	Assess population status and survival of released females at Kure Atoll.	4/95	7/95
	A	3	Assess population status and male reproductive behavior at Lisianski Island.	3/95	7/95
	A	4	Assess population status at Pearl and Hermes Reef.	4/95	7/95
	M	5	Submit manuscript to journal on new foraging mode of Hawaiian monk seals.	10/94	9/95
	M	6	Complete manuscript to journal on new foraging mode of Hawaiian monk seals.	10/94	9/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

/Div: MARINE MAMMAL DIVISION
P #: 109 MORTALITY OF MARINE MAMMALS IN CALIF GILLNET
rent Yr Task #: 8L1A5AM8 MARINE MAMMAL-CALIF GILLNET

Date: 03/21/95
Prior Yr Task #:
Task Leader: BARLOW

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
L TIME PERMANENT & TERM EMPLOYEES:							
JULIAN, ALFREDO J	11	02	36,092	100.0	36,480	06/12/95	06/11/97
TOTAL FTE FTP POSITIONS= 1.000							
TOTAL FTP SALARIES= 36,480							
PORARY EMPLOYEES:							
HENSHAW, MICHAEL D	5	01	19,052	16.7	3,181	/ /	11/30/94
TOTAL FTE TEMP POSITIONS= 0.167							
TOTAL TEMP SALARIES= 3,181							

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	36,480
[redacted] B. Employer Contribution (22%) = (A x .22)	=	8,025
Total Salaries of TEMPORARY EMPLOYEES	=	3,181
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	582
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

MMENTS:

Total Labor (sum of A thru F)	=	**48,269**
Total Other (from page 2)	=	**0**
Total Estimated Task Cost	=	**48,269**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 109 **Lab/Div:** SWC/MMD **Page:** 1

Title: GILLNET

Leader: BARLOW AND CHIVERS

Budget:

Personnel: $68.0 K Other Objects: $ 40.0 Total: $ 108.0 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code NOAA Code Code Code

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T2A	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

3. Legislation Supported by CYOP

Code: MMPA	Code: ESA	Code:	Code:
Percent: 90	Percent: 10	Percent:	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code: 23	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

5. Fishery Management Plans Associated with CYOP

Code:	Code:	Code:	Code:
Percent:	Percent:	Percent:	Percent:

6. Facilities Where CYOPs Activities Take Place

Code: SWC1	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

Quantify incidental mortality of marine mammals in the California gillnet fisheries.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To estimate mortality of marine mammals by species.
b) To determine the status of marine mammals impacted by California gillnet fisheries.
c) To quantify the age and sex structure of the incidental take.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

This task is responsible for estimating mortality rates for all species impacted by the drift and set net fisheries. Other responsibilities include archiving life history data collected by NMFS observers (i.e., database management), training NMFS observers to dissect animals and collect specimen material, working with the SWR and port coordinators to ensure standard data collection, and updating the observer field manual as appropriate. In addition, this task acts as the stranding coordinator for San Diego, county. Collecting and archiving data as well as maintaining a network with all the appropriate agencies.

3. Products/Services

The information provided by this task will primarily be used by NMFS management personnel to develop actions to protect stocks of California marine mammals from unnecessary fishery mortality.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Products provided by this task are used by NMFS offices charged with drafting measures to control the take of coastal marine mammals.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

Report from LA County Museum - 5%
Report on pollutants in marine mammal tissues - 10%

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Estimating mortality of marine mammals incidental to commercial fisheries is mandated by the MMPA (sections 117 and 118).

Recovery plans under the ESA

Strategic Plan - Assist the status of protected species

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

SWC1/500, 520, 540, 102

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L2B1P50	M	1	Submit annual gillnet mortality report to IWC		May 95
"	M	2	Prepare quarterly marine mammal mortality reports	Oct 94	Sept 96
"	A	3	Curate and manage biological data collected from coastal gillnet fisheries and strandings	Oct 94	Sept 96

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC 110 MMD **Lab/Div:** 110 **Page:** 1

Title: Gray whales

Leader: PERRYMAN

Budget:

Personnel: $ 0 K Other Objects: $ 50 K Total: $ 50 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code AKC Code USFWS Code _____ Code _____

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T2C	Code: _____	Code: _____	Code: _____
Percent: 100	Percent: _____	Percent: _____	Percent: _____

3. Legislation Supported by CYOP

Code: ESA	Code: MMPA	Code: _____	Code: _____
Percent: 80	Percent: 20	Percent: _____	Percent: _____

4. "Our Living Oceans" Units Associated with CYOP

Code: 23	Code: _____	Code: _____	Code: _____
Percent: 100	Percent: _____	Percent: _____	Percent: _____

5. Fishery Management Plans Associated with CYOP

Code: _____	Code: _____	Code: _____	Code: _____
Percent: _____	Percent: _____	Percent: _____	Percent: _____

6. Facilities Where CYOPs Activities Take Place

Code: SWC	Code: _____	Code: _____	Code: _____
Percent: 100	Percent: _____	Percent: _____	Percent: _____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

Estimation of gray whale calf production for 1995.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To assess calf productivity through shore-based counts of cow/calf pairs in April and May at Pt. Piedras Blancas, California and to compare with previous efforts conducted there.

b) To establish correction factors to more accurately calculate population size.

2. Methodology/Approach (How are the objectives being approached: what are the tactics that are being applied?)

From 15 March through 31 May (78 days) shore-based counts of northbound migrating gray whales will be conducted from Pt Piedras Blancas in a manner comparable to that established by previous researchers (Poole and Reilly). Two observers per shift will watch for 5 hours to cover 10 hours per day, 6 days per week. These results will be used on a count-rate basis to calculate a change from 1980-81 in proportion of calves seen. Aerial surveys (est. 14 days, 30 flying hours) will be used to describe the offshore distribution of whales during this period. Aerial surveys may lead to an indexing technique that could involve far less survey time than incurred by shore-based observations.

3. Products/Services
A final report is scheduled to be available by September 1995.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Products provided will be used by NMFS offices which are responsible for managing marine mammal populations. This information is required under NOAA's 5-year monitoring plan associated with the delisting of this stock for the List of Endangered and Threatened Species.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

Observer data reports - 20%
Aerial Survey Time - (5%)

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

As part of the Agency's proposal to remove gray whales from the List of Threatened and Endangered Species, a five-year monitoring program has been implemented. This research constitutes the second year of work under the 5-year monitoring program established by NOAA.

These studies also are a partial fulfillment of the Agency's requirements established by the 1994 amendments to the MMPA to assess the status of stocks in U.S. waters.

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

SWC 500, 520, 530, 540
NWC and AKC

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L2BER51	E	1	Conduct 1995 northbound census of migrating gray whales	March 15, 1995	May 31, 1995
"	M	2	Prepare report on results of 1995 census		Sept 1995
"	M	3	Prepare report to IWC on 1994 census		May 1995

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 111 **Lab/Div:** SWC/MMD **Page:** 1

Title: MARINE MAMMAL SURVEYS

Leader: BARLOW

Budget:

Personnel: $30.0K Other Objects: $234.4K Total: $264.4 K

ASSOCIATION ITEMS SECTION

1. Agencies: Code NOAA Code_____ Code_____ Code_____

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T2A	Code:_____	Code:_____	Code:_____
Percent: 100	Percent:_____	Percent:_____	Percent:_____

3. Legislation Supported by CYOP

Code: MMPA	Code: ESA	Code:_____	Code:_____
Percent: 80	Percent: 20	Percent:_____	Percent:_____

4. "Our Living Oceans" Units Associated with CYOP

Code: 23	Code:_____	Code:_____	Code:_____
Percent: 100	Percent:_____	Percent:_____	Percent:_____

5. Fishery Management Plans Associated with CYOP

Code:_____	Code:_____	Code:_____	Code:_____
Percent:_____	Percent:_____	Percent:_____	Percent:_____

6. Facilities Where CYOPs Activities Take Place

Code: SWC	Code:_____	Code:_____	Code:_____
Percent: 100	Percent:_____	Percent:_____	Percent:_____

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)
Ship and aerial surveys have previously estimated the abundance of a number of cetaceans in California waters. For certain species such as Central California stock of harbor porpoise, beaked whales, sperm whales, and pygmy sperm whales, the gillnet mortality of these species in these waters appears to be greater than would be supportable by the estimated populations. These populations will likely be listed as "strategic stocks" under the 1994 amendments to the MMPA, and will therefore, require take reduction plans which in turn will likely result in severe restrictions on the drift gillnet fisheries in California.

At least part of the reason for the low abundance estimates for beaked whales, sperm whales and pygmy sperm whales is because they are deep-diving whales and may not be seen during shop and aerial surveys. There is a need to estimate the fraction of animals missed during surveys.

For harbor porpoise, gillnet mortality has likely reduced the populations to somewhere between 30-90% of carrying capacity. Recently mortality has been reduced dramatically, and it is possible that the population is recovering. The opportunity exists to measure the actual growth rate of the recovering population, in addition, analyses of previous data indicate that another 2 years of surveys are at 2 year intervals are required to accurately estimate growth rates.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To estimate the fraction of deep-diving whales that are missed during sighting surveys from ship and aircraft.

b) To develop methodology required to hear and triangulate the position of these species using a towed hydrophone array during ship surveys.

c) To conduct field experiments with simultaneous visual and acoustic monitoring for whales.

d) To estimate the growth rate and an updated population estimate for the recovering harbor porpoise population by conducting aerial surveys in 1995 and 1997.

PAGE 3

2. Methodology/Approach (How are the objectives being approached; what are the tactics that are being applied?)

For ship surveys, the only practical method of estimating the fraction missed is to detect the whales acoustically. For aerial surveys, the only practical method is to model the diving behavior of the whales. Our intent is to develop a cons-effective towed-hydrophone method to

hear and triangulate positions of deep-diving whales during ship surveys. An experimental ship survey in and area of known high density of these species will be used in summer 1995.

Line transect surveys in a twin-engine Partenavia aircraft during the Fall of 1995 will be conducted to obtain data to be used in line transect methods of obtaining abundance estimates. Analysis of covariance will be used to estimate population growth rates while controlling for other factors (i.e., sea state and clouds) that affect sighting rates.

3. Products/Services

Feasibility reports will be available by December 1995. A final report of the 1995 harbor porpoise survey will be completed by May 1996. The information provided will be primarily be used by NMFS management to 1) develop actions to protect marine mammals in California from unnecessary or excessive fishery mortality; 2) determine allowable takes for display, research, and fisheries; 3) evaluate the effects of incidental take of marine mammals; and 4) provide the best available scientific information for stock assessment reports which are required under the MMPA.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)

Products provided will be used by NMFS offices which are responsible for controlling the take of marine mammals.

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)

NRC Post Doc - Acoustic modeling 20%
Aerial Survey Flight Time - 10%
Ship Survey Data - 23%

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

Strategic Plan
T2A - Assist status of protected species

Legislation
MMPA Reauthorized 1993 - section 117 and 118
ESA - Recovery Plans

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

SWC1/MMD 500, 520, 530, 550

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish
8L2B1P54	E	1	Conduct ship survey	July 95	Sept 95
"	M	2	Complete report on ship survey		Dec 95
"	A	3	Develop model incorporating deep diving whale behavior into population estimation	Oct 94	Sept 96
8L1A5M57	E	4	Conduct aerial survey for harbor porpoise off the coast central and northern California	Sept 95	Oct 95
"	M	5	Complete report on harbor porpoise survey		May 96

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - 115 **Lab/Div:** Honolulu **Page:** 1

Title: **Marine Turtle Research Program Add-On**

Leader: George H. Balazs

Budget:

Personnel: $0.0K Other Objects: $310.0K Total: $310.0K

ASSOCIATION ITEMS SECTION

1. Agencies: Code USFWS Code SWR Code HQ Code WPFMC

2. NOAA Strategic Plan Elements Supported by CYOP

Code: T2A	Code: T3D	Code: T2C	Code: T3F
Percent: 30	Percent: 30	Percent: 30	Percent: 10

3. Legislation Supported by CYOP

Code: ESA	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

4. "Our Living Oceans" Units Associated with CYOP

Code: 24	Code: 99	Code:	Code:
Percent: 95	Percent: 5	Percent:	Percent:

5. Fishery Management Plans Associated with CYOP

Code: 34	Code: 99	Code:	Code:
Percent: 95	Percent: 5	Percent:	Percent:

6. Facilities Where CYOPs Activities Take Place

Code: SWC2	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement

This CYOP supports the NMFS mission and responsibility to monitor, achieve increased understanding of basic biology, and ultimately to recover marine turtles in the Pacific listed under the U.S. Endangered Species Act. The CYOP also assists in reducing interactions with marine turtle species that may impede the development of sustainable commercial fisheries. The overall problem is being addressed under the framework of an Interim Hawaiian Sea Turtle Recovery Plan prepared by an NMFS-appointed team of scientists, by a draft U.S. Pacific Sea Turtle Recovery Plan currently in preparation by a NMFS-appointed recovery team, by formalized research plans prepared by experts to address the fibropapilloma disease problem in sea turtles, and the issue of sea turtle hooking interactions by the North Pacific pelagic longline fishery.

1B. Objectives

a) To obtain reliable scientific information on the biology, ecology, and life history of Hawaiian and other Pacific marine turtles;

b) To monitor and determine the population status of Hawaiian and certain other Pacific marine turtles, and to refine and improve the assessment techniques being employed;

c) To investigate the scope, magnitude, and cause of the fibropapilloma disease problem affecting marine turtle populations in Hawaii, Florida, and certain sites elsewhere worldwide, and to devise solutions or containment measures for this disease; and,

d) To assess current level of take, and mitigate, as possible, interactions of longline fisheries with pelagic marine turtles in the North Pacific.

2. Methodology/Approach

Research techniques involve the mark-recapture and sampling of turtles both in the sea and on nesting beaches in order to obtain essential data on population size, health status, essential habitats utilized, growth rates, migrations, natural predation, human-related mortality, fibropapillomatosis etiology including GIS habitat-tumor investigations, stock identification, productivity, and survivorship. Basic research tools employed include netting, skin and scuba diving, satellite telemetry, cooperative assistance of commercial and recreational fishermen, shipboard fishery observers, computerized data processing, fishery interaction modeling, cooperative projects investigating green turtle fibropapillomatosis (including parasitology and immunology), and use of workshops to define research protocols.

3. Products/Services

Scientific publications, technical reports, and data are generated on the biology, ecology, life history, pathology and population dynamics of sea turtles necessary to accomplish the recovery of marine turtles and effective longterm management of the populations. Scientific guidance and advice is supplied to various Pacific island nations and territories to support international research and recovery efforts of sea turtles. Results of workshop sessions are documented with SWFSC Administrative Reports.

4. Clients/Suppliers

The primary clients of outputs and services are the NMFS Southwest Region, NMFS Headquarters, U.S. Fish and Wildlife Service, and the Western Pacific Fishery Management Council. Other important clients include the Hawaii Department of Land and Natural Resources, National Park Service, South Pacific Regional Environmental Program (SPREP), the South Pacific Commission, and fishery/wildlife agencies in American Samoa, Guam, Commonwealth of the Northern Mariana Islands, and U.S. affiliates of Palau, Federated States of Micronesia, and Republic of the Marshall Islands. All of the above entities also serve in varying capacities as suppliers of data and other forms of input to the CYOP.

5. Major Contracts

-Estimate incidental take of sea turtles in longline fishery and design optimum observer program	$25K
-Develop diagnostic capability to test turtles for exposure to fibropapilloma agent	$45K
-Post-doctoral fellowship for sea turtle genetics stock identification	$47K
-Stranding response for dead/ill turtles	$8K
-Epidemiology of tumor disease in Hawaii	$30K

6. Justification:

This CYOP selection is directly supported by the NMFS Strategic Plan, especially Goal 4 (to integrate conservation of protected species and fisheries management); Goal 6 (to protect living marine resource habitat); and Goal 7 (to improve the effectiveness of international fisheries relationships). It is also justified by the NMFS mission under authority of the Endangered Species Act, and inter-agency responsibilities with the U.S. Fish and Wildlife Service. The CYOP's priorities come from the Interim Hawaiian Sea Turtle Recovery Plan, the draft U.S. Pacific Sea Turtle Recovery Plan, the Research Plan for Marine Turtle Fibropapilloma, the Fishery Management Plan for Western Pacific Pelagics, and the Research Plan for Marine Turtle Hooking Mortality.

7. Linkages

This CYOP is coordinated with the NMFS Southwest Region, NMFS Headquarters (Office of Protected Resources' National Sea Turtle Coordinator), the U.S. Fish and Wildlife Service, and the Western Pacific Fishery Management Council. Collaborative research and related activities also occurs with the Hawaii Department of Land and Natural Resources, the National Park Service, Sea Life Park Hawaii, and researchers at the University of Hawaii and University of Florida.

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	MEA	Seq #	Major Milestone, Event, or Activity -- Description	Start Date	Finish Date
8L2BE R70	E	1	Develop generalized turtle population dynamics simulator to assess impacts from fisheries or other sources of mortality	6/95	9/95
"	M	2	Final report of contract assessment of turtle takes and guidance for observer program.	6/95	9/95
8L2BE R71	E	3	Train fishery observers for implementation of genetics sampling protocols.	10/94	9/95
"	A	4	Collect DNA fingerprint "standards" from major nesting sites, by species.	4/95	9/95
8L2BE R73	E	5	Complete development of diagnostic test to assess exposure to fibropapilloma agent.	4/95	9/95
"	A	6	Investigate use of GIS database in epidemiological study of tumored/non-tumored turtle habitats.	4/95	9/95

(For each Task # indicate M = Milestone, E = Event, A = Activity, Sequence #, Description of the Activity, Event or Milestone and the approximate dates of starting and finishing an Activity. Milestone and event dates should be indicated in the date finish column. Use additional pages if required.)

SOUTHWEST FISHERIES SCIENCE CENTER - CYOP FINANCIAL DATA (PERSONNEL)
FISCAL YEAR 95

/Div: COASTAL FISHERIES RESOURCES DIVISION
P #: FWS CENTRAL VALLEY PROJECT
rent Yr Task #: RL2CCP00 CENTRAL VALLEY PROJECT

Date: 03/21/95
Prior Yr Task #:
Task Leader: THOMSON

Employee Name	Current Grade	Current Step	Annual Salary	Annual Work %	Projected Salary	Next Step Incr. Date	Appt End Date
L TIME PERMANENT & TERM EMPLOYEES:							
THOMSON, CYNTHIA J	12	05	47,442	75.0	35,581	10/17/95	/ /
TOTAL FTE FTP POSITIONS= 0.750							
TOTAL FTP SALARIES= 35,581							
PORARY EMPLOYEES:							
SAKOI, KENNETH R	9	01	28,867	66.7	19,254	/ /	05/02/95
TOTAL FTE TEMP POSITIONS= 0.667							
TOTAL TEMP SALARIES= 19,254							

Total Salaries of FTP, PTP, and TERM EMPLOYEES	=	35,581
[redacted] B. Employer Contribution (22%) = (A x .22)	=	7,827
Total Salaries of TEMPORARY EMPLOYEES	=	19,254
[redacted] D. Leave Surcharge (18.3%) = (C x .183)	=	3,523
Cost of Living Allowance - Honolulu (22.5%) = ((A+C) x .225)	=	0
Premium Pay (Overtime, hazardous duty, night differential, etc.)	=	0

OMMENTS:

Total Labor (sum of A thru F)	=	**66,187**
Total Other (from page 2)	=	**0**
Total Estimated Task Cost	=	**66,187**

SOUTHWEST FISHERIES SCIENCE CENTER
CURRENT YEAR OPERATING PLAN - FORM 4
FY 1995

CYOP Number: SWC - NAV **Lab/Div:** SWC/MMD **Page:** 1

Title: SHIP-SHOCK; PACIFIC MISSILE T-RANGE AERIAL SURVEY

Leader: BARLOW

Budget:

Personnel: $ 104.5K Other Objects: $ 67.2K Total: $171.7 K

ASSOCIATION ITEMS SECTION

1. **Agencies:** Code HQ Code SWR Code NAVY Code

2. **NOAA Strategic Plan Elements Supported by CYOP**

Code: T2A	Code:	Code:	Code:
Percent:	Percent:	Percent:	Percent:

3. **Legislation Supported by CYOP**

Code: MMPA	Code: ESA	Code:	Code:
Percent: 50	Percent: 40	Percent:	Percent:

4. **"Our Living Oceans" Units Associated with CYOP**

Code:	Code:	Code:	Code:
Percent:	Percent:	Percent:	Percent:

5. **Fishery Management Plans Associated with CYOP**

Code:	Code:	Code:	Code:
Percent:	Percent:	Percent:	Percent:

6. **Facilities Where CYOPs Activities Take Place**

Code: SWC	Code:	Code:	Code:
Percent: 100	Percent:	Percent:	Percent:

1A. Problem Statement (What management or scientific problem does this CYOP help solve?)

To monitor marine mammals in the area of concern for the U.S. Navy.

1B. Objectives (What are the major objectives being pursued by this CYOP?)

a) To conduct aerial surveys.

b) To provide the U.S. Navy with areas where there will least likely be any marine mammal interactions.

c) To review the distribution of marine mammals in the area.

2. Methodology/Approach (How are the objectives being approached:what are the tactics that are being applied?)

Conduct line-transect aerial surveys.

3. Products/Services
Report completed by April 1995.

4. Clients/Suppliers (Who uses the outputs or services? Upon whom is the project dependent for inputs?)
US Navy
SWR

5. Major Contracts (List major contracts and provide approximate percentage of total contract costs to total budget)
Aerial contract (5%)

6. Justification: (What strategic plan, mandate or authority supports this projects' selection? Why was this problem chosen to be addressed; how was its importance/priority determined?)

MMPA

7. Linkages (With whom is the CYOP coordinated? Indicate collaboration with other facilities, personnel, budgets, agencies.)

CYOP 500, 520, 530,

MILESTONES, EVENTS AND ACTIVITIES SECTION

Task #	M E A	Seq #	Major Milestone, Event or Activity Description	Date Start	Date Finish

RL1A6000	M	1	Prepare report on activities conducted during "Ship-Shock" surveys		April 95